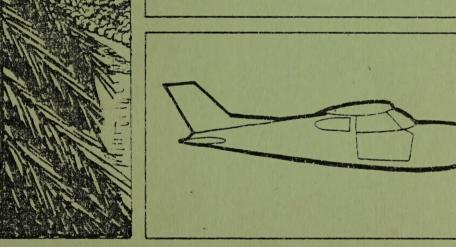
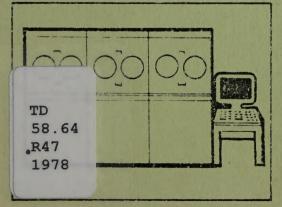




# PHASE I DRD Unit Resource Analysis









User Requirement Specifications

Watershed

(HIGH PRIORITY)



TD 58.64 R 47 1978

A
USER REQUIREMENTS DOCUMENT
OF
HIGH PRIORITY OUTPUTS
FOR A
WATERSHED RESOURCE INVENTORY - URA
INFORMATION SYSTEM

PHASE I DETAILED REQUIREMENTS DEFINITION

JUNE, 1978

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#### PREFACE

The User Requirement Specifications contain the high priority requirements of the Watershed Management Information System defined during the Detailed Requirements Definitions (DRD) Study, Phase I, of the BLM Strategic Plan as identified in the October-December 1977 field review. They represent the first increment for the design phase of the Watershed Management Information System - an initial summary of the user's requirements within the Resource Inventory - URA framework. This document is not a design document of the automated system itself.

Contents of the package include the Executive Summary (I), Problem Statement (II), Environment (III), and Watershed Information Requirements (V). Sections I, II and III are primarily narrative while Section V is devoted to an information flow chart of the system (A) and a detailed description of the outputs (B) and inputs (C).

The information flow (A) is the one part of the package listing all high priority inputs and outputs as identified in the field review of the initial package (October 1977). The chart shows generally which inputs produce which outputs.

Section VB is a detailed description of the high priority Watershed outputs which are grouped by subsystems for soils (1), vegetation/cover (2), air (3), geology (4), and water (5). Each output is described on an output description form which includes the output title, a brief description, proposed usage, frequency of production, volume of use, etc. A sample of each described output is also included. The order in which the outputs are presented has no significance. However, the first position of the output identification code shows which subsystem the output is a part of, and the second position is always an "0," e.g., SO-1 is the first Soils output.

Section VC is a description of the inputs which are required to produce the outputs described in section VB. This section also includes Watershed inputs of lower Watershed priority but which are required to produce high priority outputs for other resource programs (e.g., range). Each input is described by an input description form, similar to the output description forms. It will be either an Initial Data Base Generation form (data from other systems) or a Data Base Maintenance form. As with outputs, a sample of each input form (Data Base Maintenance) is included. The order of inputs has no significance, but the first position of the input indentification code shows which subsystem the input is a part of and the second position is always an "I," e.g., SI-1 is the first Soils input.

The User Requirement Specifications contain the bigh priority requirements of the Materiald Management Information System defined during the Occalled Requirements Services (DED) Study, Phase 1. of the BEM Strategic Plan as identified in the October-Cocamer 1917 field review. They represent the first increment for the design characters of the Usershed Management State first increment of the Usershed Management State of the Resource Inventory - USA framework. This document is not a design document of the automated symbol itself.

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# **ACKNOWLEDGMENTS**

The following individuals actively participated in development of the initial Watershed DRD, Phase I Package:

Alaska	Ken Brakken	Anchorage DO
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Idaho .	Tom Woodward	SO SO
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Nevada	Ronnie Clark	SO SO
New Mexico	Howard Gebel	Roswell DO
Oregon	Rick Banta Bill Power Byron Thomas	SO Salem DO SO
Utah .	Jim Littlejohn Dick Page Bill Wagner	Richfield DO SO SO
Wyoming	Julian Anderson Larry Cary Dick Larsen	Rock Springs DO Casper DO Rawlins DO
WO	Stu Hughes Don Willen	350 350
DSC	Bob Delk Keith Eggleston Frank Giessner Jim Hagihara Sharon Heywood Dale Hoffman	307 350 350 350 200 300

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		Desert Planning Staff Susanville DO
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	Fara shana	
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	Don Miller	
	Cob 73 18  Kofth Frederich  Erenk Elegener  Erenk Elegener  Erenk Elegener	

Offices which reviewed and commented on the initial URD package included:

California SO Nevada SO Utah SO W.O., Division of Watershed

All contributions to this document are very much appreciated.

Glenn H. Lipscomb Watershed Core Team Member perfect which reviewed and commented on the initial URD pockage included:

Utah 50 W.O., Division of Watershed

California 50

All contributions to this document are very such appreciated.

Stemm H. Lipscomb Latershed Circ Team Hember

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#### I. Executive Summary

The Watershed User Requirements Document provides the first increment (high priority outputs) for the design phase of the Watershed Management Information System. Its purpose is to define in detail the standard outputs required by field users, the required inputs, and an information flow for inputs/outputs. The document also includes data element definitions for all data elements required for defined inputs/outputs. These definitions are contained in the Watershed (Systems 141-145) Data Element Dictionary.

Contents of the document include only those outputs identified during the field review (October-December 1977) as required for immediate automation. Other outputs of lower priority (medium or low) will be considered for automation following data base design of the high priority requirements.

As noted in the Acknowledgments, a number of individuals (28) participated in development of the initial Watershed User Requirements package and four offices participated in a user review of the package. Following the package review, necessary revisions were made and a revised package prepared based on high priority needs.

#### II. Problem Statement

The Watershed Program consists of diverse types of inventory data including soils, vegetation/cover, air, non-mineral geology and water. To date the collection, analyses, and storage of these kinds of data have been accomplished largely through the use of manual rather than automated systems. Manually handling large quantities of these kinds of data has resulted in inefficient utilization of collected data, lost or misplaced data (e.g., with transfer of personnel), and lack of ability to make adequate analyses of the data (without computer capability). To solve these problems, data will be stored and processed through use of Bureau's comprehensive and integrated information system. Only through use of an automated system will it be possible to store, analyze and retrieve the large amounts of Watershed data required today for planning and environmental analysis purposes.

Lack of BLM Manual guidelines for resource inventories in the areas of climate, air quality, non-mineral geology, and water resources created a problem in adequately defining the requirements. For this reason, new requirements will have to be defined in the future as new inventory manuals are developed and implemented by the Bureau for these data areas.

# III. Environment

At the present time most field offices are continually collecting soils, cover, air quality, and water quantity/quality data for use in planning and environmental analysis activities. Such data (maps and alphanumeric) are normally filed at the field offices (in the desks of specific technical specialists). Because handling of these data must be

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done manually, it is very time consuming and subject to human error (when analysis of the same data is repeated).

With an automated system, as soon as data are entered in the system, repeated queries can be answered immediately on a terminal with assurance that the same answer will be given repeatedly until the data file is updated. Storage of both graphic and alphanumeric data will permit interaction of the data and provide capability to retrieve data for any geographic area of interest.

Through use of computer storage, all data for a geographic area will be stored in a central location and will be accessible to any office of the Bureau with terminal facilities. This will permit data retrieval for reports, public inquiries, etc., to be accommodated without involvement of field office personnel.

#### IV. <u>User-To-System Interface</u>

For a discussion of User-to-System Interface, refer to the separate document titled "User Interface Introduction."

# V. Watershed Information Requirements

#### A. <u>Information Flow</u>

This chart shows the flow of Watershed information required to generate high priority outputs (both for Watershed and other resource programs). It displays all required inputs/outputs and generally shows which inputs produce which outputs.

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#### IV. Uner-To-System Interface

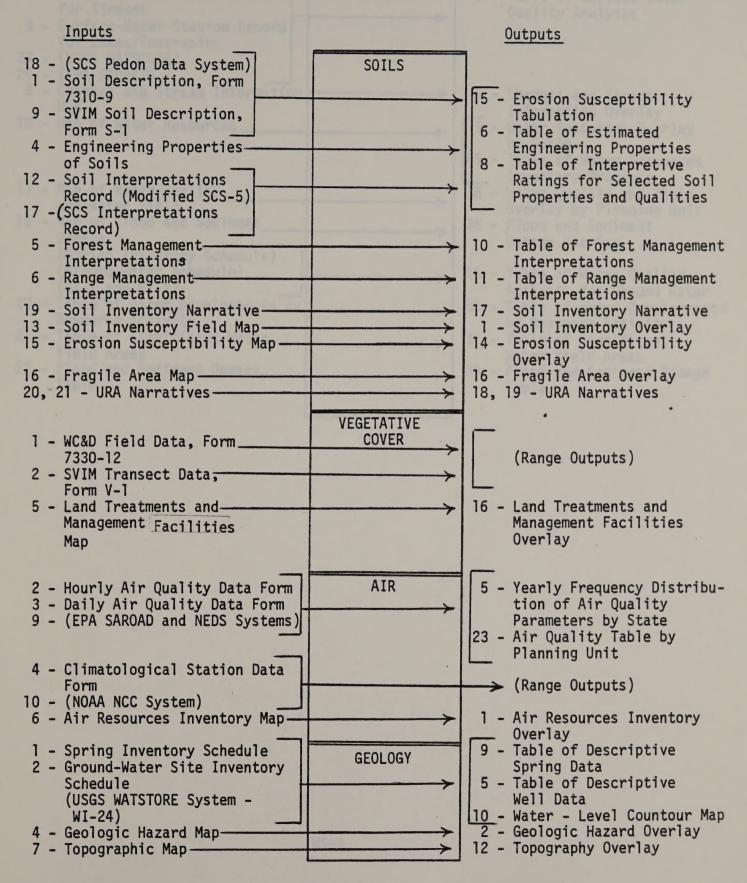
For a discussion of User-to-System Interface, refer to the separate document titled "User Interface Introduction."

#### Materialed Information Sequirecents

## A. Information Flow

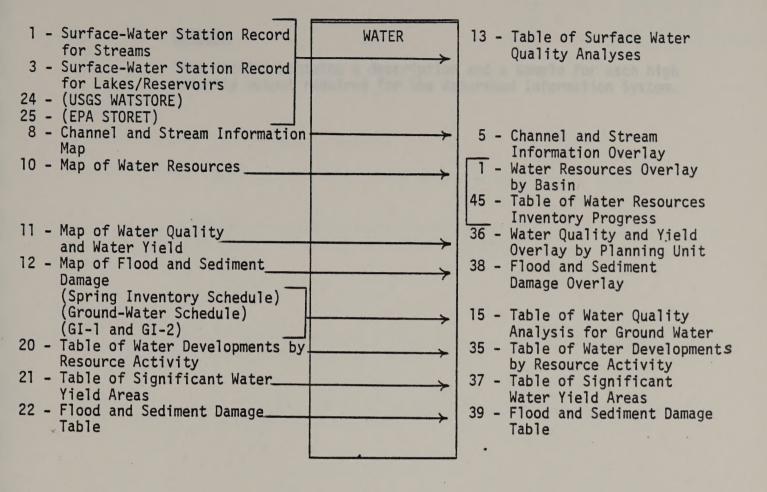
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#### WATERSHED INFORMATION FLOW CHART



#### WATERSHIEL INFORMATION FLOW CHART

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)	



#### B. Outputs

This section contains a description and a sample for each high priority output required for the Watershed Information System.

noundaries for an inventory area (see attached)

Outputs

This section contains a description and a sample for each high switchity output required for the Natarahad Information System.

50 - 1

Prog. Area:

Watershed-Soils

Prep. By:

Date:

G. Lipscomb

21 June 78 (Revision)

#### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Soil Inventory Overlay

**OUTPUT FORM:** Map (on base 7-1/2 or 15 minute quad.)/graphic display

OUTPUT DESCRIPTION: A graphic display/hard copy of soil mapping unit boundaries for an inventory area (see attached)

USER(s): Soil Scientists; Natural LOCATION(s): SC; SOs; DOS; RAHs; etc. Resource Specialists; Planners; etc.

USAGE: As input for URA, EAR's, ES's, activity plans, development project design, land classification, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days 1 week REQUIRED:

FREQUENCY OF PRODUCTION: Weekly for Soil Scientist at DO to annually for SS at SC

**DEPENDENCIES:** 

None

**REQUEST PARAMETERS:** State, Geographic (100-0690)

District, Administrative (100-0543)

Name, Soil Inventory Areas (141-4600) A set of coordinates (e.g., Latitude (27-1236) and Longitude (27-1237); Rectangular Survey

(127-1695, 1699, 1703, 2506, 2904)

Prog. Area: Watershed-Solls Prop. By: G. Lipscons Sate: 21 June 78 (Rev

# OUTFAIT DESCRIPTION

OUTPUT TITLE: Soil Inventory Overlay

OUTPUT FORM: Nop (on base 7-1/2 or 15 minute quad.)/graphic display

DOTPUT DESCRIPTION: A graphic display/hard copy of soft mapping unit boundaries for an inventory area (see ettached)

USER(s): Soft Schentister Maturel LOCATION(s): SC: SD:: DOS: PAHs; etc.

utage: As input for URA, EAR's, ES's, activity plans, development project design, land classification, etc.

ACCESS LIMITATIONS: More

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUESICY OF PRODUCTION: Markly for Soft Scientist at DO to annually for

12313MJUNAYSU

REQUEST PARAMETERS:

State, Sectrophic (100-0590)
District, Administrative (100-0543)
Rome, Soft Inventory Areas (141-4500)
A set of coordinates (e.g., Latitude (27-1236)
and Longitude (27-1227); Rectangular Survey
(127-1555, 1690, 1703, 2506, 2904)

#### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Soil Inventory Overlay

SORT ORDER: NA

ESTIMATED VOLUME: 20 per district

COMPUTATIONS/PROCESSES:

NA

ACCURACY: Within 5%

SCALE: Variable (usually filed at 1:24,000 or 1:62,500)

ANNOTATIONS:

See attached

LEGEND:

Standard soil map symbols keying mapping unit symbols to names of soil mapping units

SOTT Mapping

**REMARKS:** 

None

OUTPUT DESCRIPTION PAGE 2 OF 2

SUTPUT TITLE: SOFT Inventory Oyerlay

AM PRINTERS TRUE

ESTINATED VOLUME: 20 per district

COMPUTATIONS/PRINCESSES:

100

ACCURACY: MICHIGAN

SCALE: Various (usus) Fitted at 1:24,000 or 1:62,500

MONTATIONS

See attracked

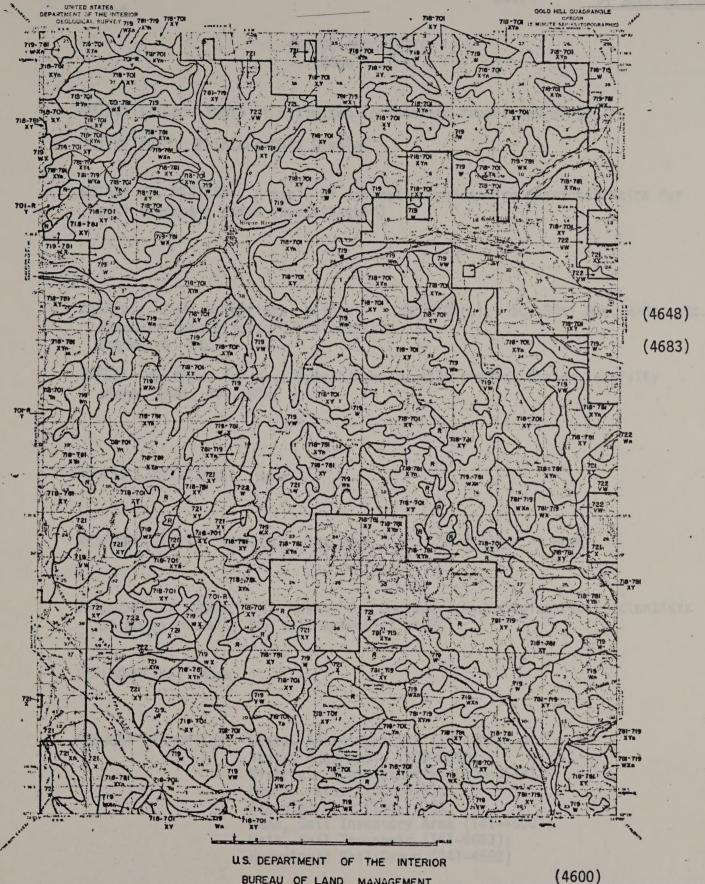
10K30

REMARKS:

91000

- 3-84





BUREAU OF LAND MANAGEMENT OREGON (0690)

Name, Soil Inventory Area

MEDFORD DISTRICT (0543) SOIL INVENTORY MAP 1973 (6630)

Prog. Area: Watershed-Soils Prep. By:

G. Lipscomb

Date:

21 June 78 (Revisio

SO-6

#### **OUTPUT DESCRIPTION** Page 1 of 2

OUTPUT TITLE: Table of Estimated Engineering Properties of Soils

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of estimated engineering characteristics for

soil taxonomic units (see attached)

USER(s): Soil Scientists; Natural LOCATION(s): SC; SOs; DOs; RAHs; etc. Resource Specialists; Hydrologists; Engineers; etc.

USAGE: As input for development/construction project design, activity plans, EAR's, ES's, URA, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days 1 week REQUIRED:

FREQUENCY OF PRODUCTION: Weekly for engineers/hydrologists/soil scientists at DO to annually for soil scientist at SC

DEPENDENCIES: None

State, Administrative (100-0004) or REQUEST PARAMETERS:

State, Geographic (100-0690);

District, Administrative (100-0543);

County, etc. (100-0546); Planning Unit (100-1075);

Name, Soil Inventory Area (141-4600); Unit, Soil Taxonomic (141-4683);

Hydrologic Soil Group (141-4562)

8-02

OUTPUT SECREPTION PROPERTY OF 2

OUTPUT TITLE: Table of Estimated Engineering Properties of Soils

COUPUT FORM: PREMIUS/Cars Display

CUTFUT DESCRIPTIONS A cable of estimated engineering characteristics for soft textonomic units (see actached)

NER(s): Sail Saintists Matural LOCATION(s): SC: SOR: DOS: RANK etc.. Resource Specialists; Morrologists: Engineers; etc.

USAGE: As input for davelopment/construction project design, activity

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 7-3 mayor REQUIRED: 7 seek

FREQUENCY OF PRODUCTION: meetly for angineers/hydrologists/soil scientists at DO to annually for soil scientist at SC

DEPENDENCIES: Nove

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Seggraphic (100-0690); Ofserice, Administrative (100-0543); County, etc. (100-0546); Flanaing Unit (100-1076); Unit, Soil Inventory Area (141-4600); Unit, Soil Inventory Area (141-4600); Unit, Soil Inventory Area (141-4600);

OUTPUT DESCRIPTION Page 2 of 2

SO-6

OUTPUT TITLE:

Table of Estimated Engineering Properties of Soils

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME:

4 per district

COMPUTATIONS/PROCESSES:

N/A

ACCURACY:

SCALE: NA

ANNOTATIONS:

LEGEND: NA

**REMARKS:** 

None

## TABLE OF ESTIMATED ENGINEERING PROPERTIES OF SOILS

State (0690)(0004); District (0543); Soil Inv. Area (4600); County (0546).

Soil Series Symbol	Soil Name	Depth From Surface (inches)	(4569) Depth to Bedrock (inches)	Hydro- logic Group	Shrink/ Swell Potential	Uncoated	IVITY	CLASSI	IFICATION Unified	AASHO	(4605) Coarse Frag- ments >3" (percent)	Liquid Limit (percent)	Plasticity Index
(4683) 36	(4648) Witzel	(4547) 0-19	(4546) 12-20	and the same of the same	(4635) Low	(4540)	(4539) Moderate	74526)	(4523) GC or CL	(4522) A-6	(4606)	(4571) 35-40	(4564) 15-20
370	Unnamed	0-60	40+	В	Moderate	Moderate	Moderate	Gravelly clay loam	CL	A-6	0-40	25-35,	15-20
371	Unnamed	0- 9	20-40	В	Low	Moderate	Moderate	Loam	ML or CL-ML	A-4 or A-6	0	25-35	5-10
		9-34	es true		Low	High	Moderate	Very gravelly loam	CM	A-2	0-20	25-35	5-10
372	Unnamed	0-18	12-20	D	Low	Moderate	Moderate	Very gravelly loam	GM	A-4 or A-2	0-20	20-30	5-10
380	Pollard .	0- 9	40+	С	Low	Moderate	Low	Loam or clay loam	ML or CL	A-6	0-15	35-40	10-15
		9-50			Moderate	High	Moderate	Clay	ML or MI	A-7-5	0	45-55	15-20
381	Unnamed	0-14	20-40	C	Low	Moderate	Low	Gravelly loam or gravelly clay loam	ML or GM	A-4 or A-6	0	25-40	5-15
		14-34			Moderate	High	Moderate	Gravelly clay or gravelly clay loam	CL or ML	A-6, A-7-5	0-20	35-50	15-25
382	Unnamed	0-11	40+	С	Low	Moderate	Low	Gravelly clay loam	GM	A-4 or A-6	0-10	25-40	5-15
		11-74			Moderate	High	Moderate	Very gravelly clay or very gravelly silty clay	GC or CL	A-7-5	0-20	45-55	15-20
701	Unnamed	0- 8	12-20	α	Low	Low	Low	Gravelly loam	SM	A-4, A-2	0-20	20-30	NP- 5
		8-13			Low	Low	Low	Very gravelly loam	GM or CL	A-4 or A-6	0-20	20-30	5-10
704	Carney	0-30	20-40	D	High	High -	Low	Clay	СН	A-7-6	0-30	60-75	35-45
705	Unnamed	0- 7	20-40	С	Low	Low	Low	Cobbly clay loam	ML or CL	A-4	0-35	30-35	5-10
		7-31			Moderate	Moderate	Low	Very cobbly clay	CG	A-6, A-7-5	30-60	35-50	15-25
706	Medco	0-13	20-40	D	Moderate	Moderate	Low	Loam or clay loam	ML, SM or GM	A-6 or A-4	0-40	30-40	5-15
		13-27			H1gh	High	Low	Clay	СН	A-7	0-20	60-80	35-50
710	Coker	0-70	40+	D	High .	High	Low	Clay	CH .	A-7	. 0- 5	60-75	35-45
712	Jumpoff	0- 5	40+	С	Moderate	Low	Low	Gravelly clay loam	CL-ML, ML	A-4	<u>,</u> 0	25-35	5-10
		5-52			High	Low	Moderate	Clay	CL or CH	A-7-6	0	45-60	30-40

Serie (0980) (0000); Compt (0543); -

interitor

Prog. Area: Prep. By:

Watershed-Soils G. Lipscomb

Date: 21 June 78 (Revision)

S0-8

#### **OUTPUT DESCRIPTION** Page 1 of 2

OUTPUT TITLE: Table of Interpretive Ratings for Selected Soil Properties

and Qualities

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of information about soil taxonomic units that is significant for management interpretations (see attached)

LOCATION(s): SC; SOs; DOs; RAHs; etc. USER(s): Soil Scientists; Natural Resource Specialists; Planners; Watershed Specialists; etc.

As input to URAs, EARs, ESs, activity plans, land use authorizations, land classifications, etc.

ACCESS LIMITATIONS: None

2 to 3 days RESPONSE TIMES: DESIRED: 1 day REQUIRED:

FREQUENCY OF PRODUCTION: Weekly for soil scientists at DO to monthly for others

DEPENDENCIES: None

State, Administrative (100-0004) or REQUEST PARAMETERS:

State, Geographic (100-0690);

District, Administrative (100-0543);

County, etc. (100-0546); Planning Unit (100-1075);

Name, Soil Inventory Area (141-4600);

Unit. Soil Taxonomic (141-4683)

8-08

# OUTPUT DESCRIPTION

OUTPUT TITLE: Table of Interpretive Ratings for Selected Soil Properties and Qualities Output Force: Princoug/Date Display

CUTPUT DESCRIPTION: A sable of Information about soil Laxonomic units that is significant for management interpretations (see attached)

USER(s): Soil Scientists: Natural LUCATION(s): SC: 50s: D0s: RANK: stc. Resurce Specialists: Flankers;
Watersted Specialists; Rankers;

USAGE: As input to UNAs. EARs. ESs. activity plans, land use authoriza-

ACCESS LIMITATIONS: Nome

RESPONSE TIMES: DESIRED: 1 day REQUIRED: 2 to 3 day

PREQUESTOR OF PRODUCTIONS Healthy for soil scientists at DO to monthly for others

DEPENDENCIES: Nove

Administrative (100-0004) or State, Geographic (100-0000);

State, Geographic (100-0000);

County, acc. (100-0048);

Planning Unit (100-1075);

Bine, Soil Inventory Area (141-4600);

Unit, Sail Taxonomic (141-4600);

SO-8

OUTPUT TITLE: Table of Interpretive Ratings for Selected Soil Properties

and Qualities

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 8 per district

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

SAME: NOW

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0-0

DOLLAR DESCRIPTION

### TABLE OF INTERPRETIVE RATINGS FOR SELECTED SOIL PROPERTIES AND QUALITIES

County (0546); State (0690)(0004); P.U. (1075); District (0543); Soil Inv. Area (4600)

	(4683)	(4648)	(4547)	(4517)	4520)	(4514)		(4533) Available	(0755)	(0694)(4	638)		(4518) (4515)	(4641)	(455	7) (4661)
	Soil Series Symbol	Soil Name	Depth (Inches)	Permeability	4320)	Drainage	(4546) (4569)	Capacity (Inches)	ERD	Precipi- tation (Inches)	^	Compaction Hazard		Reaction Range		Frost Susceptibility
	36	Witzel	12-20	Moderately Slow	44	Well Drained	H	43	and the second	20-35	(in	Slight	Sus.	5.6-6.0	D	Moderate
NAME OF TAXABLE PARTY.	370	Unnamed	40+	Moderate	Runoff	Well Drained	Layer	3-6		35-70+	on	Moderate	1 1	5.8-6.3	Hazard	Severe
The Croses	371	. Unnamed .	20-40	Moderate	Ru	Well Drained	1	3-6		35-70+	ati	Slight	) u	5.6-5.7	- 4	Moderate
To State of Secondary	372	Unnamed .	12-20	Moderate		Well Drained	tár	<3	The state of the s	35-70+	pit	Slight	tio	5.8-6.0	poo	Moderate
State and a second	380	Pollard	40+	Moderately Slow		Well Drained	Limiting	6-9		35-70+	eci	Severe	Condition	5.4-5.5	F1	Severe
-	381	Unnamed	20-40	Moderately Slow		Well Drained	H	3-6		35-70+	re Pr	Moderate, Severe		5.8-6.4		Moderate
WS-	382	Unnamed	40+	Moderately Slow		Well Drained		3-6	Control of the Contro	35-70+	fectiv	Moderate- Severe	Erosion	5.8-6.5		Moderate
-14	701	Unnamed	. 12-20	Moderate- Moderately Rapid		Well Drained- Somewhat Excessively Drained		<b>43</b>		20-35	Eff	Slight		5.6-6.5	and the specific control of th	Moderate
	704	Carney	20-40	Very Slow		Well Drained	1.	43		18-30		Severe		6.1-7.3		Severe
	705	Unnamed	20-40	Moderately Slow		Well Drained		3-6		20-35		Moderate		6.1-7.3		Moderate
	706	Medco	20-40	Very Slow		Moderately Well Drained		3-6	110	20-35		Severe	and the second	6.1-6.0		Severe
and the second state of	710	Coker	40+	Very Slow		Somewhat Poorly Drained	Section of the sectio	6-9		18-25		Severe	The second secon	6.6-8.4	manufacture and the second second	Severe
* 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	712	Jumpoff	40+	Slow-Very Slow		Moderately Well Drained		3-6		30-50		Severe		6.2-6.4	and form comments	Severe
A. T.	715	Brader	12-20	Moderate	A STATE OF THE PARTY OF THE PAR	Well Drained		43		18-30	of the second se	Slight		6.0-6.5		Severe
	716	Debenger	20-40	Moderate .		Well Drained		3-6		18-30		Slight		6.0-6.5		Severe CO
-	718	Beekman	20-40	Moderate		Well Drained		3-6		20-35		Slight		6.1-6.6		Moderate
	719	Manzanita	40+	Moderately Slow		Well Drained		6-9		20-35		Severe		5.6-6.5	-	Severe
	721	Siskiyou	20-40 .	Moderately Rapid		Somewhat Excessively Drained		<b>43</b>		30-50		Slight		5.1-6.0		Severe

1

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					SPECTAL SERVICE						

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date 21 June 78
(Revision)

### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Table of Forest Management Interpretations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of forest management interpretations for soil taxonomic units (see attached)

USER(s): Foresters; Soil
 Scientists; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to forest management activity plans, reforestation plans, URAs, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO foresters/soil scientists to annually for SO forester

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or

State, Geographic (100-0690);

District, Administrative (100-0543);

County, etc. (100-0546); Planning Unit (100-1075);

Name, Soil Inventory Area (141-4600);

Unit, Soil Taxonomic (141-4683)

Prog. Area: Watershed-Sofis Prep. Sy: G. Lineromb Date 21 June 78 (Bayision)

## OUTPUT DESCRIPTION

COTFUT TITLES TABLE OF FOREST MELASOREST Interpretations

CUTFUT DESCRIPTION: A table of forest management interpretations for

USER(s): Formstare; Soft Schoolfate; Planners; etc.

LOCATION(5): 50s; DOS; RAHS; stg.

USAGE: As input to Jamest management activity plans, referestation plans, URAs, etc.

ACCESS LINITATIONS: Mose

RESPONSE TEMES! DESIRED: 2 to 3 days RECutings | 1 week

PARQUENCY OF PRODUCTION: Monthly for DO foresters/soil scientists to

DEPENDENCIES: Name

REQUEST PARAMETERS: State, Securety (100-0004) or State, Securety, Gac. (100-0549); County, Gac. (100-0548); Planning Unit (100-0548); Mamo, Seil Inventory Area (141-4506); Unit, Seil Inventory Area (141-4506);

# OUTPUT DESCRIPTION Page 2 of 2

SO-10

OUTPUT TITLE: Table of Forest Management Interpretations

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME:

30 per district

COMPUTATIONS/PROCESSES:

NA

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

Do

NA

**REMARKS:** 

None

07-51

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VCCTHYCL:

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OULS SECONALISM

State(06	90)(0004);P.U.(1075); 546);District(0543);	TABLE OF I	FOREST MANAGE	MENT INTERPR	ETATIONS
Soil Inv Soil Series Symbol (4683) 36	546):District(0543); Area(4600):  Soil Name (4648) Witzel	Forest Site Type Class Managed (5767) (5926	(5750) (5751)	Regeneration, Hazard (Bare Root) (4559) (4558)	Remarks (6954) Nonforest soils.
1/ 370/n 1/ 370	Unnamed, northerly aspect Unnamed, southerly aspect	Douglas-fir A	150-III (4) 130-III (1)	Slight (4560) Moderate	Soils with higher site index receive seepage water. Windthrow is a hazard in the Low Divide area. Soils with higher site index receive seepage water. Windthrow is a hazard in the Low Divide area.
$\frac{1}{1}$ / 371/n 371	Unnamed, northerly aspect Unnamed, southerly aspect	Douglas-fir A Douglas-fir A	115-IV (3) 115-IV (3)	Moderate Severe	
$\frac{1}{1}$ / 372/n $\frac{1}{372}$	Unnamed, northerly aspect Unnamed, southerly aspect	Douglas-fir A Douglas-fir A	100-V (3) 80-V (1)	Severe Severe	
$\frac{1}{1}$ / $\frac{380}{380}$ /n	Pollard, northerly aspect Pollard, southerly aspect	Douglas-fir A Douglas-fir A	111 145-111 (3)	Slight Moderate	Site class is lower near zones of low precipitation.
$\frac{1}{1}$ / $\frac{381}{381}$	Unnamed, northerly aspect Unnamed, southerly aspect	Douglas-fir A Douglas-fir A	130-III (1) 125-IV (2) 120-IV	Moderate Severe Moderate	Site class data are from forest inventory records.
1/ 382/n 382 701/n	Unnamed, northerly aspect Unnamed, southerly aspect Unnamed, northerly aspect	Douglas-fir A Douglas-fir A Douglas-fir B	115-IV (5) 80-V	Moderate Severe	Site class data are from SCS records.
701711	Unnamed, southerly aspect	Ponderosa pine C	80-V	Severe	Site class data are from SCS records. Nonforest soils.
704	Carney		-	-	Nonforest soils.
705/n 705	Unnamed, northerly aspect Unnamed, southerly aspect	Douglas-fir B	85-V 	Severe	Site class data are from SCS records.  Nonforest soils.
706/n 706	Medco, northerly aspect Medco, southerly aspect	Douglas-fir A	90-V (1) 		Site class data are from SCS records. Nonforest soils.
710	Coker				Nonforest soils.
712/n 712	Jumpoff, northerly aspect Jumpoff, southerly aspect	Douglas-fir A Douglas-fir A	105-IV 90-V	Severe Severe	Site class data are from forest inventory records. Site class data are from forest inventory records.
715	Brader		70		Nonforest soils.
716	Debenger	***	-		Nonforest soils.
718/n	Beekman, northerly aspect	Douglas-fir A 1	10 to 90-IV to V	Severe	Site class data are from SCS records. Productivity in higher at elevations above 3000 feet.
718	Beekman, southerly aspect	Douglas-fir A	95-V	Severe	Site class data are from forest inventory records.

<sup>1/</sup> Soils with measured data.

<sup>2/</sup> From tables in Field Instructions for Integrated Forest Survey and Timber Management Inventories in Western Oregon, 1968. BLM, Portland, Oregon. The number in parentheses show number of plots examined with 3 to 5 trees per plot.

The series with seasonable dates.

				Descriptor of					
			103 1000 1000 1000 1000						

S0-11

Prog. Area: Watershed-Soils Prep. By: G. Lipscomb Date: 21 June 78

(Revision)

#### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Table of Range Management Interpretations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of range management interpretations for soil taxonomic units (see attached)

USER(s): Range Specialists; LOCATION(s): SOs; DOs; RAHs; etc. Soil Scientists; Planners, etc.

USAGE: As input to range management AMPs, range improvement plans, URAs, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days 1 week RECUIRED:

FREQUENCY OF PRODUCTION: Monthly for DO range specialist/soil scientist to annually for others

DEPENDENCIES: None

State, Administrative (100-0004) or REQUEST PARAMETERS:

State, Geographic (100-0690);

District, Administrative (100-0543);

County, etc. (100-0546); Planning Unit (100-1075);

Name, Soil Inventory Area (141-4600);

Unit, Soil Taxonomic (141-4683)

Prog. Area: Matershed-Sofis Prog. 5/: G. Lipscorp Date: 21 June 78 (Revision)

#### OUTFUT DESCRIPTION Face 1 of 2

OUTPUT TITLE; Table of Mange Management Interpretations

OUTFUT FORMS PRINCIPLES OF STREET

OUTFUT DESCRIPTION: A table of range management interpretations for soll taxonowic units (see stracted)

USER(s): Ramon Specialists; con LOCATION(s): SOn: DOS: PANS; cbc.

USAGE: At logge to range minagement APS, range improvement plant, URAS,

ACCESS LIMITATIONS: Nome

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

PREDICTOR PROCESTION: Monthly for DO range specialist/soil scientist

DEPENDENCIEST NAME

REQUEST PARRETERS: State, Administrative (100-0004) or State, Geographic (100-0590); District, Administrative (100-0543); County, etc. (100-0546); Planning Unit (100-1075); Name, Soil Inventory Area (141-4600).

OUTPUT DESCRIPTION Page 2 of 2

SO-11

OUTPUT TITLE: \_\_Table of Range Management Interpretations

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 4 per district

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS:

NA

LEGEND: NA

REMARKS:

None

St	ate(	0690)(0004); PU(1075); (0546); District(0543);	TABLE OF RANGE	MANAGEMENT INTER	RPRETATIO	ONS		
So Syn (46	11 I nbol 083)	Nv. Area (4600).  Soil Name (4648)  Witzel, northerly aspect	Vegetation Sub-Type (2706)	Key Species and Perc	ent Cover (3824)	Productive Capacity Potential (4534)	Normal Growing Season (0997) (0998)	Normal Grazing Season (3845)
* 3	16	Witzel, southerly aspect		2- 7		8- R		
*37	0	Unnamed		AC E		2.5	4 7	
*37	11	Unnamed	99 9	11 01 2	-			
*37	7						70 70	
		Unnamed	9 44 6					
*38	30	Pollard					-	
*38	31	Unnamed		2 - 2				
*38	32	Unnamed		-			7 5	=
*70	1/n	Unnamed, northerly aspect	-	F = 2				
*70	1	Unnamed, southerly aspect		·				E
70	04	Carney, southerly aspect	Oak - Pine - Oatgrass	White oak	35-50	2-3	2/15- 7/1	
				Ponderosa pine California oatgrass Idaho fescue	5-15 50-65 1- 5			
70	)5	Unnamed, southerly aspect	Douglas-fir - Mixed Pine Forest	Douglas-fir Ponderosa pine Sugar pine Western fescue Mountain brome	40-60 5-10 5-10 5-10 Trace- 2	12	2/15- 7/15	-
70	06/n	Medco, northerly aspect	Douglas-fir Forest	Douglas-fir	65-80	4	3/15- 8/ 1	8
				Madrone Black oak	1- 5 1- 5			
				Western fescue	2- 3			
*			5	Mountain brome	2- 3			
70	)6	Medco, southerly aspect	Oak - Pine - Fescue	White oak	50-70	2-5	2/15- 6/15	
		3.9		Ponderosa pine Idaho fescue	Trace- 3 35-45			
71	10	Coker, southerly aspect	Oak - Pine - Oatgrass	White oak Black oak Pacific serviceberry Poison oak California oatgrass Idaho fescue	35-50 1-10	2-3	3/ 1- 7/15	5/ 1-11/ 1
				tually leache				,
*7	12	Jumpoff		00-m		***		

						**		
				100				

Prog. Area: Watershed-Soils Prep. By: G. Lipscomb

Date: 21 June 78 (Revision)

50 - 14

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Erosion Susceptibility Overlay

**OUTPUT FORM:** 

Map/graphic display

**OUTPUT DESCRIPTION:** 

A graphic display/hard copy of boundaries of erosion

susceptibility classes for a planning area (See Attached)

USER(s): Soil Scientists; Planners; LOCATION(s): SC; SOs; DOs; RAHs; etc.

Natural Resource Specialists: etc

USAGE: As input to URAs, EARs; ESs, activity plans, development/construction

project design, land classification, etc.

ACCESS LIMITATIONS: None

**RESPONSE TIMES:** DESIRED: 2 to 3 days

REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for soil scientist/planner at DO to annually

for others

**DEPENDENCIES:** None

**REQUEST PARAMETERS:** State, Geographic (100-0690);

District, Administrative (100-0543); Name, Soil Inventory Areas (141-4600);

Planning Unit (100-1075);

a set of coordinates (e.g., Latitude (27-1236)

and Longitude (27-1237); Rectangular Survey (127-1695, 1699, 1703, 2506, 2904)

M-02

STOR TOT 2

COTPUT TITLE: Erosion Cuscaptibility Overlay

OUTFUT FORM: Mag/graphic display

SUFFRE DESCRIPTION: A graphic displayment copy of boundaries of erosion succeptionity classes for a planning area (See Attached)

DER(s): Soil Scientists; Planners; LOCATION(s): SC: SDs: DOS: RAMS: etc.

USAGE: As input to URAs, CARD; ESs, activity plans, development/construction project design, land classification, atc.

ACCESS LIMITATIONS: None

RESPONCE TIMES: DESIGN: 2 to 3 days REQUIRED: 1 weet

PRECUESICY OF PRODUCTION: Monthly for woll actentist/planner at DO to annually

DEPENDENCIES: Name

EQUEST PARAMETERS: State, Geographic (100-0650);
District, Administrative (100-0653);
Home, Soft Inventory Areas (147-4600);
Plebning-Unit (100-1075);
B Set of coordinates (e.g., Lastands

and Longitude (27-1237); Rectangular Survey (127-1695, 1090, 1703, 2506, 2004)

#### OUTPUT. DESCRIPTION Page 2 of 2

OUTPUT TITLE: Erosion Susceptibility Overlay

SORT ORDER: NA

ESTIMATED VOLUME: 2 per district

COMPUTATIONS/PROCESSES: NA

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS: See attached

LEGEND: Standard map symbols for depicting three erosion susceptibility classes plus areas with permafrost and/or mantle stability problems (see legend on attachment)

REMARKS: None

OUTFUT TITLE: Ereston Susceptibility Overlag

SORT ORDERS MA

ESTIMATED VOLUME: 2 DOY BISTOFICE

COMPUTATIONS/PROCESSES: NA

ACCURACY: Within 5%

SCRIE: Variable (filled as 1:25,000 or 1:52,500)

ANNOTATIONS: See occapied

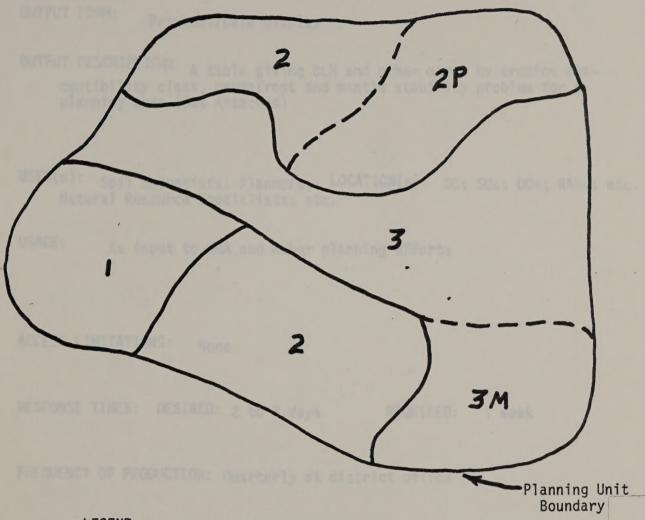
Classes plus areas with dermarrost and/or mantle stability problems (see legend on attachment)

STORY I STORY

#### EROSION SUSCEPTIBILITY OVERLAY

State (0690)(0004) District (0543) P.U. (1075)

Date: 2-10-67 (2302) (2306)



### LEGEND

- 1 Slight erosion susceptibility
- 2 Moderate erosion susceptibility

(4515)

- 3.- Severe erosion susceptibility
- P Permafrost area
- M Mantle stability problem area

#### YALKSYO YTLILBITYRDOUR MOLEONS

Once: 2-10-67 (2302) (2305) State (0590)(0004) District (0563) P.U. (1075)



### DN303

- 1 Sitght eventon succeptibility
- 2 Moderate erosion susuaptibility
  - 3.- Severe erusion susceptibility
    - 9 Parmatrost area
  - M Mantle stability problem area

Prog. Area: Watershed-Soils

Prep. By: G. Lipscomb

21 June 78 (Revision)

SO-15

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE:

Erosion Susceptibility Tabulation

**OUTPUT FORM:** 

Printout/Data Display

OUTPUT DESCRIPTION: A table giving BLM and other acres by erosion susceptibility class, permafrost and mantle stability problem for a planning area (See Attached)

USER(s): Soil Scientists; Planners; LOCATION(s): SC; SOs; DOs; RAHs; etc.
 Natural Resource Specialists; etc.

USAGE: As input to URA and other planning efforts

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly at district office

**DEPENDENCIES:** None

REQUEST PARAMETERS: State, Administrative (100-0004) or

State, Geographic (100-0690);

District, Administrative (100-0543);

County, etc. (100-0546) Planning Unit (100-1075). rog. Area: Naterahed-Soils rep. Sy: E. Liesconb later 21 June 78 (Savi

PAGE T OF S

20-12

SUPPLY TITLE: EFFORTON SUSCEPTION TABULARIO

MIPUT FORM: Perferoncement Drapley

Captibility class, permatrost and namela stability problem for a planning area (See Attached)

MERN(s): Soft Scientists; Plannars; LOCATION(s): SC; SOS; DOS; RANS; etc.

As input to UIA and other planning efforts

ACCESS LIMITATIONS: Mone

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

PREQUENCY OF PRODUCTIONS DOGSTORY AN district office

000PENDENCIES: Nome

EQUEST PARAMETERS: State, Administrative (100-0004) or State, Eaggraphic (100-0000); District, Administrative (100-0003); County, etc. (100-0046).

# OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Erosion Susceptibility Tabulation

SORT ORDER: Identical to sequence of Request Parameters.

ESTIMATED VOLUME: 3 per district

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

# TO S OF S

OUTPUT TITLE: Ereston Sucception195y Tapulation

SORT ORDERS; Identifical to sequence of Request Princeters.

ESTEMATED VOLUME: 3 DOR STREETES

CONCUTATIONS FOR SECTIONS AND PROPERTY AND P

ACCURACY: NA

AM TELEDR

AM : ZNOITATIONS: MA

AM : GITGOSJ

REMARKS: None

State (0690) (0004); County (0546); District (0543); P.U. (1075).

Date: 2-10-77 (2302) (2306)

#### Erosion Susceptibility Tabulation

Classification	BLM Acres	Lan Other Acres	d Status Total Acres	% of Total
Susceptibility  Classes  Slight  Moderate  Severe (4515)  Unclassified (4800)  Totals P	50,000 (4669) 100,000 (4670) 30,000 (4671)	3,000 (4672) 4,200 (4673) 1,000 (4674)	P 53,000 104,200 31,000 - 188,200 P	P 28 55 17 - 100 P
Permafrost  Mantle  Stability  Problems	(4 <u>6</u> 75) 5,000 (4677)	(4 <u>6</u> 76) - (4678)	- 5,000 P	- 3 P

Prog. Area: Watershed-Soils Prep. By: G. Lipscomb

Date: 21 June 78 (Revision)

SO-16

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Fragile Area Overlay

**OUTPUT FORM:** 

Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of fragile areas identified within

a planning area (See Attached)

USER(s): Soil Scientist; Planners; LOCATION(s): SC; SOs; DOs; RAHs; etc.

Natural Resource Specialist; etc.

USAGE: As input to URA and other planning efforts

**ACCESS LIMITATIONS:** None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for soil scientist/planner at DO to

annually for others

**DEPENDENCIES:** 

None

REQUEST PARAMETERS: State, Administrative (100-0004) or

State, Geographic (100-0690);

District, Administrative (100-0543);

County, etc. (100-0546); Planning Unit (100-1075); A set of coordinates

(e.g., Latitude (127-1236)

and Longitude (127-1237); Rectangular

Survey (127-1695, 1699, 1703, 2506, 2904).

50-16

Page 1 of 2

COTPUT TITLE: Fragile Area Overlin

CHIPPIT FORM: Man/Graphic Circles

OUTPUT DESCRIPTION: A graphic display of fragile areas identified within a planning area (See Assached)

USER(s): Soil Scientist; Planners; LOCATION(s): SC; SOS; DOS; RAHs; etc.

USAGE: As input to URA and other planning efforts

ACCESS LIMITATIONS: None

MESPONIE TIMES: LESINED: 2 to 3 days

REQUIRED: 1 week

PREGUENCY OF PRODUCTION:

Monthly for soil scientist/planner at DO to annually for others

DEPENDENCIES:

200

EST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); Ofstrict, Administrative (100-0642); County, etc. (100-0645); Planning Unit (100-1075); A set of coordinates (127-1236) and Longitude (127-1236); Ametangulanda Longitude (127-1237); Rectangulanda (1

SO-16

OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE:

Fragile Area Overlay

SORT ORDER:

-Identical to sequence of request parameters

ESTIMATED VOLUME:

2 per district

**COMPUTATIONS/PROCESSES:** 

None

ACCURACY:

Within 5%

SCALE:

Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS:

See Attached

LEGEND:

Standard legend for types of fragile areas (See legend on attached

output)

REMARKS:

OUTPUT DESCRIPTION PROP 2 OF 2

30-15

OUTPUT TITLE: Frantie Area Overlay

SORT CROER: | | descript to sequence of request parameters

CONVITATIONS APPROPRIES.

SHIP

ACCURACY: WIGHIN SE

SCALE: | Varioble (FYTed at 1:24,000 or 1:62,500)

ANTOTATIONS: See ACCuched

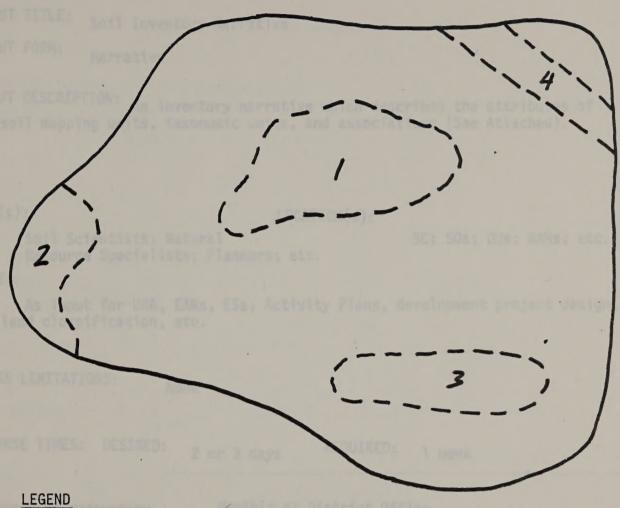
LEGERUS: Standard Ingond for types of fragile areas (See lagend on attached output)

JEWIS:

### FRAGILE AREA OVERLAY

State (0690)(0004) District (0543) P.U. (1075)

Date: (2302) (2306)



- 1 Landslide hazard area in Tyee sandstone
- 2 Shallow soil area

(4681)

- 3. Steep south exposure
- 4 Fault zone

#### VALUE AND VENTOR OF THE PARTY

Daker (2305) (2306)

State (0600)(3004) 07atrict (0643) P.O. (1075)



- I Landelida hagard area in Type candatone
  - 2 Shallow soft area
  - CASSIT.
- 3 Steep south exposure
  - 8 Fault cone

Prep. By:

Prog. Area: Watershed-Soils

Date:

G. Lipscomb 21 June 78 (Revision)

SO-17

#### **OUTPUT DESCRIPTION** Page 1 of 2

OUTPUT TITLE:

Soil Inventory Narrative

**OUTPUT FORM:** 

Narrative

OUTPUT DESCRIPTION: An inventory narrative which describes the attributes of soil mapping units, taxonomic units, and associations (See Attached).

USER(s):

LOCATION(s):

Soil Scientists; Natural Resource Specialists; Planners; etc. SC: SOs: DOs: RAHs: etc.

USAGE:

As input for URA, EARs, ESs, Activity Plans, development project design, land classification, etc.

ACCESS LIMITATIONS:

None

RESPONSE TIMES:

DESIRED:

2 or 3 days

REQUIRED:

1 week

FREQUENCY OF PRODUCTION:

Monthly at District Office

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Geographic (100-0690); District, Administrative (100-0543); Name, Soil Inventory Area (141-4600); Planning Unit (100-1075) Frep. By: B. Materiel.

30-17

COTFOR TOTAL

OUTPUT TITLE: COLI INVESTORY NAMED IN

OUTPUT FORMS MARKET NAMED

OUTFUT DESCRIPTION: An inventory parrenter which describes the attributes of "soft mapping units, taxonosis units, and associations (See Attached).

:(2)932D

LOCATION(s):

Soft Schemitster Auturn)

32A2U

As taput for UVA. EARs. 23s, Accietty Plans, development project design,

ACCESS LIMITATIONS:

3000.

RESPONSE TIMES: DESTREDA . . . . S. A. . REGULREY

STATE OF STREET, OF STREET

FREQUENCY OF PRODUCTION:

DEPENDENCIES

mail mail

REQUEST PARAMETERS: State State, Coopyrights (100-0690); District, Administrative (100-0643); Name, Sate Inventory Area (141-4600); Planning Unit (100-1075)

SO-17

# OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE:

Soil Inventory Narrative

SORT ORDER:

Identical to request parameters

ESTIMATED VOLUME:

30 per district

COMPUTATIONS/PROCESSES:

None.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

**REMARKS:** 

None

OUTPUT DESCRIPTION

50-17

DATESTAR SCHOOL LAND

SUTTET TUTTUO

PERSONAL PROPERTY OF PERSONS

PRICES THE

30 ner district

ESTINATED VOLUME

COMPUTATIONS/PROCESSES:

-9000

ACCURACY:

All All

SCALE:

731

ANNUTATIONS:

AUI.

LEGENDS

m

ENGINEES:

None

#### SOIL INVENTORY NARRATIVE

State: (0690) (0004)

Date: (2302) (2306)

District: {0543}

Name, Soil Inventory Area: {4600}

# Mapping Units:

806-R/VW 1.840 acres. Slopes dominantly are southerly and about cent of the area has gradients of 0 to 10 percent and 30 percent has gradients of 10 to 35 percent. This unit contains about 80 percent of the shallow 806 soils and 20 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils and what poorly-drained unclassified soils in drainageways.

806-R/X 1.730 acres. Slopes dominantly are southerly and have gradients of 35 to 60 percent. This unit contains about 75 percent of shallow 806 soils and 25 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils. (4549)(4550)(4566)(4646)(4668)

# SOIL INVENTORY NAMED IN

Scarse (0000) nonce) Date: (2002) (2006)

# Depoing United

Jude bne vinentuce are vinentesh espeiz .comp. OFA-I WV.N-JDS

DE bne drap of the drap drapidants of D to 10 percent and 30

DE contract has gradiente of the contract of the shallow 80% soils and 20

Descent of the cot ine shallow 80% soils and 20

Descent of the cot land.

Inclusions consist of the moderately deep 80% soils and what pourly-drained unclassified soils in drainagevays.

1-710 acres. Elopes dominantly are southerly and have gradients of 35 to 60 percent. This unit contains about 75 percent of shallow 50b soils and 25 percent of (R)

Inclusions consist of the moderately deep 60% soils.

Prog. Area: Watershed-Soils Prep. Bv: G. Lipscomb

Date: 21 June 78 (Revision)

#### **OUTPUT DESCRIPTION** Page 1 of 2

**OUTPUT TITLE:** 

Erosion Susceptibility Narrative

OUTPUT FORM:

Narrative

**OUTPUT DESCRIPTION:** 

A URA Step 2 narrative describing the eroseon

susceptibility of the soils within a planning area.

USER(s):

LOCATION(s): Soil Sceintists:

SOs; DOs; RAHs; etc.

Natural Resource Specialists;

Planners; etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS:

None

RESPONSE TIMES: DESIRED:

2 or 3 days

REQUIRED:

1 week

FREQUENCY OF PRODUCTION:

Monthly for soil scientists at DO to annually for

soil scientists at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Prop. By: G\_Lipscomb Date: 21 June 78 (Revision)

> OUTPUT DESCRIPTION Page 1 of 2

> > SUTTE TUSTUO

Eropion Succeptibility Herrative

OUTPUT FORM:

Switz small

OUTPUT OESCENPTION: A USA Step 2 nervative describing the croseon susceptibility of the spile within a planning area.

:(a)R32U

Soft Scatnefers: LOCATION(s): SOs: DOs: RAHS; etc.

USAGE: As down to them 2 Ad DE

ACCESS LIMITATIONS:

RESPONSE TIMES: DESIRED: 7 or 3 days REGUIRED: 7 week

EREQUENCY OF PRODUCTION: Monchily for soil scientists at 00 to sonually for

DEPENDENCIES: Name

REQUEST PARAMETERS: State, Administrative (100-0000) or State, Geographic (100-0500); District, Administrative (100-0543); Planning Unit (100-1075)

# OUTPUT DESCRIPTION Page 2 of 2

SO-18

**OUTPUT TITLE:** 

Erosion Susceptibility Narrative

SORT ORDER:

Identical to request parameters.

ESTIMATED VOLUME:

1 per District

COMPUTATIONS/PROCESSES:

None.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

**REMARKS:** 

None

# NUTPUT DESCRIPTION PROBE 2 OF 2

81-08

DUTPUT TITLE:

Ercelon Susceptibility flarestive

SORT ORDER

Identical to request paymenters.

John District

ESTIMATED VOLUMES

COMPUTATIONS/PROCESSES:

ACCURACY:

SCALE:

ANNOTATIONS:

LEGEND:

100

- 2MARNER

pensil.

	FKOZION ZOZCESITRITILI NAVVALIAE			
	State: {0004} {0690} District: {0543} Planning Unit: No Name (1075)	Date:	(2302)	(2306)
s in	Erosion Susceptibility is			• •
	(4679)			
	Permafrost is found			
	(4679)			
155:	Mantle stability problems consist (4679)	of • • •	,	::

SE-DE

ENSIGN SUBCEPTIBLITY NARRATIVE

States (2003) (2008) Dates (2003) (2005)

(4979)

(6259)

. . . . . . . . . To Islanco eneldera villionie eliman

(82959)

SO-19

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb

Date: 21 10

21 June 78 (Revision)

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Fragile Area Narrative

OUTPUT FORM:

Narrative

OUTPUT DESCRIPTION: A URA Step 2 narrative describing fragile areas for a planning area (See Attached).

USER(s):

LOCATION(s):

Soil Scientist; Natural

SOs; DOs; RAHs; etc.

Resource Specialist; Planner; etc.

USAGE:

As input to Step 2 of URA

ACCESS LIMITATIONS:

None

RESPONSE TIMES:

DESIRED:

REQUIRED:

2 or 3 days

1 week

FREQUENCY OF PRODUCTION:

Monthly for soil scientists at DO to annually

for soil scientists at SO.

DEPENDENCIES:

None

**REQUEST PARAMETERS:** 

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

# OUTPUT DESCRIPTION Page 2 of 2

**OUTPUT TITLE:** 

Fragile Area Narrative

SORT ORDER:

Identical to request parameters.

ESTIMATED VOLUME: 1 per District

COMPUTATIONS/PROCESSES:

None.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

**REMARKS:** 

None

Page 2 of 2

50-19

COUTPUT TUTLE:

Engile Area Sarractive

SORT DROER:

Identifical to request parameters.

ESTINATED VOLUME: 1 DEC DISCOMORED

COMPLICATIONS / PROTESTED

\*YOARUSOA

SCALE:

ANNOTATIONS:

FERENO:

REMARKS

FRAGILE AREA NANNATIVE
State: {0004} {0690}
A severe landslide area exists
(4680) (4681)
As input to Step 2 DRAs May conficure oftour of other systems aren
The shallow soils on the west side
(4680) (4681)

COLCTUE ADEA NADDATTUE

FI-DZ

PERCEPT TAREN MUREN LINE

Date: (2002) (2005)

Startical (USAS)

---- and a series are a dilebral enever &

(TEOS) (DOSS)

. . . . . sole sens and no elfor wolfane unit

(TESA) (GESA)

VO-16

Prog. Area: Watershed-V/C Prep. By: G. Lipscomb

Date:

21 June 78 (Revision)

### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Land Treatments and Management Facilities Overlay

**OUTPUT FORM:** 

Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of land treatment and management facilities located within a planning unit (See Attached).

USER(s): Watershed Specialist; LOCATION(s): SOs; DOs; RAHs; etc.

Natural Resource Specialist;

Planners, etc.

USAGE:

00

As input to Step 2 URA; May duplicate output of other systems such

as JDR.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days

REQUIRED:

1 week

FREQUENCY OF PRODUCTION:

Monthly for DO specialists/planners to annually

for others

**DEPENDENCIES:** 

None

**REQUEST PARAMETERS:** 

State, Administrative (100-0004) or

State, Geographic (100-0690)

District, Administrative (100-0543);

Planning Unit (100-1075);

A set of coordinates (e.g., latitude (127-1236) and longitude (27-1237); Rectangular Survey (127-1695,

1699, 1703, 2506, 2904)

31-0V

rep. By: G. Cipscolo

# OUTPUT DESCRIPTION

HTML LINES | Lond Treatments and Moraganest FactI(ties Overlay

**CUTPUT FURNIS** 

MILEY GRADINE OF SEPTEM

OUTPUT DESCRIPTION: A gradule display of land treatment and management

USER(s): Watershed Specialists (LOCATION(s): 500: DOS: RAHS: 05c. Hatural Research Specialists

USAGE: As imput to Step 2 URA; may deplicate obtqut of other systems show

ACCESS LIMITATIONS: Nove

RESPONSE TIMES; DESIRED: 1 bg 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists/planners to annually

0EF ENDENCIES:

-1107

SEQUEST PARAMETERS:

State, Administrative (100-0004) or State, Cangraphic (100-0690)
UNSCRICT, Administrative (100-0643);
Planning Unit (100-1075);
A set of coordinates (e.g., latitude

#### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Land Treatments and Management Facilities Overlay

SORT ORDER: Identical to sequences of request parameters

ESTIMATED VOLUME:

3 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached sample of output)

LEGEND: Standard map symbols for identifying the location of land treatments and management facilities (see legend on sample attached).

REMARKS: None

OUTPUT TITLES Land Treatments and Management Factifities Ovariay

SORT CROSEL Identical in sequences of requist parameters

ESTINATED VOLUME: 3 per District

COMPUTATIONS, PROCESSES: None

ACCURACY: WINNESS

SCALE: Vertable (filed at 1:20,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached tample of cutout)

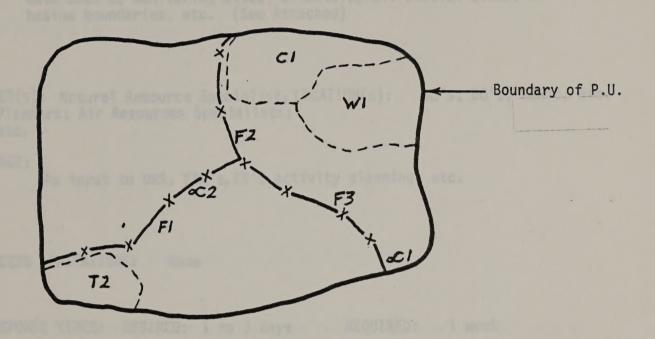
LECEND: Standard map symbols for identifying the location of land treatments and management facilities (see legend on sample attached).

- M : ENGAMES

#### LAND TREATMENTS AND MANAGEMENT FACILITIES OVERLAY

(0004) (0690) State (0543)District (1075) P.U.

Date: (2302) (2306)



#### LEGEND:

- Allotment A Boundary Fence
- Allotment B Boundary Fence
- F3 Allotment C Boundary Fence C1 Chemical sagebrush manipulation
- Mechanical P-J manipulation by chaining T2
- Contour furrowing in burned sagebrush WT
- Comparison area for big sagebrush site Comparison area for P-J site C1

(5464)

# LAND TREATMENTS AND MANAGERS FACILITIES DYERLAY

tare (0004) (0632) (2302) (2308) (2308) (2308) (2308) (2308) (2308) (2308) (2308)



#### -41/2031

F) Allotment A Soundary Fonce
F2 Allotment C Soundary Fonce
G1 Chemical Segment C Soundary Fonce
G2 Chemical P-3 wantpulation by chaining
W3 Contour furrowing in burned Segments
W4 Comparison area for blu segments site

(1605)

A0-1

Prog. Area: Watershed-Air Prep. By: G. Lipscomb

Date: 21 June 78 (Revision)

# OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Air Resources Inventory Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the location of Air Resources data such as monitoring sites, climatological station sites, air basins boundaries, etc. (See Attached)

USER(s): Natural Resource Specialist; LOCATION(s): SO's, DO's, RAH's, etc.
Planners; Air Resources Specialists;
etc.

USAGE:

As input to URA, EAR's, ES's, activity planning, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly for DO specialists/planners to annually for others

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

Prog. Area: Matershed-Air Prep. By: G. Lipsconn Dates 21 June 18 (Eaviston

# OUTPUT DESCRIPTION Page T of Z

OUTFUT TITLES AT RESOURCES Inventory Overlay

OUTPUT FORM: Hap/Grackfc Display

OUTPUT DESCRIPTION: A graphic display of the location of hir Resources data such as monitoring sizes, climatelogical station affect air basing boundaries, etc. (See Attached)

USER(s): Natural Resource Specialists; LOCATION(s): SO's, DO's, RAH's, etc., Planners; Afr Resources Specialists;

**BBAZU** 

As input to URA, EAR's, ES's, activity planning, etc.

ACCESS LIMITATIONS: Name

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 wen

PREQUENCY OF PROTECTIONS CONTRACTS for DG specialists/planners to annually

-2313/150/13930

not it

REQUEST PARAMETERS: States, Administrative (100-0004) or State, Geographic (100-0543); Blatesict, Administrative (100-0543); Planning Unit (100-1076)

A0-1

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Air Resources Inventory Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 10 per district

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

**SCALE:** Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS: For each air basin/airshed show P.S.D. area; and for each air quality and climatological station site show parameters and period of record.

#### LEGEND:

Standard map symbols to key air resources information displayed on overlay (see legend on attached sample).

### REMARKS:

None

PAGE 2 OF 2

OUTFUT TITLE: Air Resources Investory Overlay

SORT CHOCKS: Identical to sequence of request persenters

ESTIMATED VOLUME: TO per statefer

COMPUTATIONS/PROCESSES; None

ACCURACY: WITHIN SE

SCALE: Yarfacle (ffled at 1:28,000 or 1:62,500)

quality and cliestelogical station site show parameters and period

711112012

Standard was symbols to key air resources information displayed on overlay (see lagend on essatted sample).

SEMPONES:

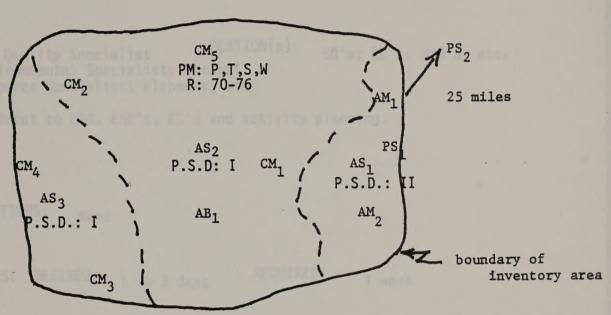
anon

# AIR RESOURCES INVENTORY OVERLAY

State: (0004) (0690) District: (0543)

Planning Unit: (1075)

Date: (2302)(2306)



Legen	d (air resource inventory)	Legend (	Air Basin/Airshed)
AM <sub>1</sub>	Air Quality Monitoring Site Now 001 (4978)	$\left(\left(\mathbf{A}\mathbf{S}_{1}\right)\right)$	Sawmill Airshed, No. 1
AM <sub>2</sub>	Air Quality Monitoring Site No. 002	1	A
CM <sub>1</sub>	Climatological Station Site No. 0001	1	Middle Airshed, No.2
CM <sub>2</sub>	Climatological Station Site No. 0002 (8515)	LAS <sub>3</sub>	Clean Airshed, No. 3
CM <sub>3</sub>	Climatological Station Site No. 0003	$AB_1$	Colorado Air Basin No. 1 (4959)
CM <sub>4</sub>	Climatological Station Site No. 0004	PS <sub>2</sub>	Point Emission Source (Coal-Fired power
CM <sub>5</sub>	Climatological Station Site No. 0005		plant)
3		PS <sub>1</sub>	Point Emission Source
PM	Parameters of Record (5377)		(Sawmill burner)
R	Period of Record	P.S.D	Classification, Pre- vention of Significant
	WS-44		Deterioration (4998)

#### VALPENO VECTORINAL PROPERTY OFFI

Date: (2302)(2306)

States (0004) (0005) Statesing Onte: (1075)



Prog. Area: Water

Prep. By: G. Lipscomb
Date: 21 June 78 (Revision)

A0-5

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Yearly Frequency Distribution of Air Quality Parameters by

OUTPUT FORM: State

Printout/Data Display

OUTPUT DESCRIPTION:

A table displaying frequency distribution of quarterly

or yearly air pollution data

USER(s): Air Quality Specialist LOCATION(s): SO's; DO's; RAH's; etc.

Environmental Specialist; Natural Resource Specialist; Planners; etc.

USAGE: As input to URA, EAR's, ES's and activity planning.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Annually for DO specialist to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Site Code Number (143-4910)

5-07

S TO I WATER

OUTPUT TITLES Yearly Frequency Distribution of Air Quality Farameters by

OUTPUT DESCRIPTION:

A table displaying frequency distribution of quarterly or yearly air pollution disa

USER(s): Air Quality Specialist LOCATION(s): CC's: DO's: RAW'S: Stc. Environmental Specialist; Natural Specialist; Placement etc.

USAGE: - As fegut to URA, EAR's, ES's and activity placeing.

ACCESS LIMITATIONS: Name

MESPONSE TIMES: DESIRED: T TO S days RECUIRED: T work

PREQUENCY OF PRODUCTIONS. Assumely for to specialize to specialize for school.

DEPENDENCIES: (Rome

Sequest PARAMETERS: State, Administrative (100-5004) or State, Geographic (100-0001); District, Administrative (100-0003); Planning Link (100-1072); Site Eque Number (143-4210)

A0-5

**OUTPUT TITLE:** 

Yearly Frequency Distribution of Air Quality Parameters by State

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME:

30 per district

a

COMPUTATIONS/PROCESSES:

Computation of frequency distribution (quarterly or yearly) of air pollution parameter data.

ACCURACY:

SCALE: NA

AMNOTATIONS: NA

LEGEND:

NA

REMARKS:

None

OUTPUT TITLE: Yearly Frequency Distribution of Air Quality Parameters by State

SORT, ORDERS: Likewisters to communes of Tablioshi :830RO TROS

ESTIMATED VOLUME: 30 our district

COMPUTATIONS/PROCESSES:

Computation of frequency distribution (quarterly or yearly) of air pollution parameter data.

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STON INCOMES

(0690) Site Code: 31 (0004) 34 (0543) 80 (1075) 001 (4910) Agency/Project: A01 (4902/4905) Agency Type: EPA/Atmos. Surv. (4905)

Latitude: 40 D. 42 M. 00 S. (1236) Longitude: 070 D. 10 M. 00 S. (1237) UTM Zone: 19

- (7515) UTM Northing: 4505894

UTM Easting: 401435 )
Elevation Above Ground: 065 Ft. (4908)

Supporting Agency: Air Pollution Control Newark Dept of Health & Welfare (4906)

Comment County AQCP (C		4) Essex Co (0546) w Jersey-New York-Connection	cut (4959)	9										128 Ft.	(0431)	
(6562) Year	(4970) Qtr	Pollutant (4937) Pollutant-Method Code Method (4928) Interval (4925) & Units		(4971) Num Obs	Min Obs	10	30	Pero	centi 70	1es 90	95	99	Max Obs	Arith Mean	Geome Mean	tric Std Dev
65		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (29	5 C)	24 ~	49.	73.	88.	112.	138.	210.	215.	285.	285.	123.	112.79	1.52
66		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (2	5 C) .	25	48.	56.	66.	81.	102.	165.	170.	179.	179.	96.	88.25	1.50
67		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (2	5 C)	25	24.	38.	67.	92.	126.	160.	169.	191.	191.	98.	86.36	1.72
68		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (2	5 C)	24	32.	41.	68.	90.	102.	161.	197.	200.	200.	93.	83.37	1.60
69	State.	Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (2	5 C)	25	35.	44.	55.	74.	87.	98.	105.	166.	166.	74.	69.88	1.42
70		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (2	5 C)	24	34.	58.	73.	81.	89.	122.	157.	171.	171.	86.	81.31	1.42
71		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (2	5 C)	24	33.	56.	74.	80.	111.	137.	141.	186.	186.			

		Agentine (St. C)			

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb

Date:

21 June 78 (Revision)

A0-23

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Air Quality Table by Planning Unit

**OUTPUT FORM:** 

Printout/Data Display

OUTPUT DESCRIPTION:

A table summarizing average monthly air pollutant levels for a planning area (See Attached).

USER(s):

Air Quality Specialist; LOCATION(s): SO

SO's: DO's: RAH's; etc.

Natural Resource Specialist;

Planners; etc.

**USAGE:** 

As input to Step 2 URA, EAR's, and ES's.

ACCESS LIMITATIONS:

None

RESPONSE TIMES: DESIRED:

REQUIRED:

1 to 3 days

1 week

FREQUENCY OF PRODUCTION:

Annually for RAH/DO Specialists to annually

for others

**DEPENDENCIES:** 

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

OUTPUT TITLE: Air Quality Table by Planning Unit

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME: 2 per District

COMPUTATIONS/PROCESSES: Computation of average monthly air pollutant levels for air pollution parameters from recorded values (hourly, daily, etc.) for monitoring station records.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

**REMARKS:** 

None

TO 2 NOW?

ES-OA

CHIPMY TETELED AND QUALITY FARIA by Franches Unite

PRODUCTION TEMPORATE OF SAMPLESS OF SECTIONAL

THE REPORT OF THE PARTY OF THE

COMPUTATIONS/PROCESSES Computation of average monthly air pollutant levels (or air pollution parameters from recorded values (nearly, ently, etc.) for months ing station records.

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TENEDS

Alt.

REPARKS:

3000

State (0004) (0690) District (0543) P.U. (1075) Date: (2302)(2306)

Month	Average Monthly Pollutant Level (ug/m <sup>3</sup> ) (4930)									
Honen	Particulates	NO <sub>2</sub> (4937) 30 <sub>2</sub>	НС							
Jan Feb Mar Apr May Jun Jul (P) Aug Sept Oct Nov Dec Annual		(4985) ->	Corneling for a planting							

WS-50

men (Satisfame)

THE PERSON AND THE PERSON WITH THE

5'5' (1033) 505555 (10343) 30958 (10004) (100

Prog. Area: Watershed-Geol.

Prep. By: Date:

G lipscomb 21 June 78 (Revision)

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: GEOLOGIC HAZARD OVERLAY

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of geologic hazards for a planning

area. (See attached.)

USER(s): Geologist; Natural Resource LOCATION(s): SO's, DO's; RAH's; etc.

Specialist; Planners; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Twice per month for RAH/DO specialists to annually

for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State,

Geographic (100-0690); District, Administrative (100-0543);

Planning Unit (100-1075)

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CUTTUT DESCRIPTION OF 2

welcold observances in the graces

CUTALT DESCRIPTION: A constant display of endlogic herords for a classing

USER(s): Coologist; Baturul Pasaurca 1.00AT1UM(s): 50's. 00's; RAM's ord.

MSACE: As input to URA, EAR's, ES's, activity plans, and project cesign.

MCCESS LIMITATIONS: None

RESPONSE TIMES: OESIRED: 1 to 3 days (EQUIRED: 1 MPG

DEGUENCY OF PRODUCTION: Twice par month for AMI/OG specialists of onnually

DEPENDENCIES: None

# OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: GEOLOGIC HAZARD OVERLAY

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 3 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached sample output.)

LEGEND: Standard map symbols to depict such geologic hazards as landslides,

floods, etc.

REMARKS: None

S TO S ASSESS

10,000

personner frames to prouse of feeterd!

ENTERNIED VOLUME: 3 per District

COMPLETATIONS / PEDCESSES: None

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AMMOTATIONES (Saw accusing samula curpus.)

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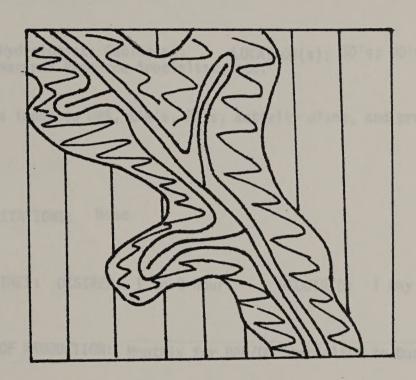
REMARKS: None

Geology GO-2

GEOLOGIC HAZARD OVERLAY

Date: (2302)(2306)

State (0004)(0690) District (0543) P.U. (1075)



LEGEND



landslide susceptibility



flood susceptibility (5129)



no landslide/flood susceptibility

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no landsitde/flood susceptibility Tond uscapefolity (ST29)

Watershed-Geol. Prog. Area: Prep. By:

G. Lipscomb

Date: 21 June 78 (Revision

**OUTPUT DESCRIPTION** Page 1 of 2

OUTPUT TITLE: TABLE OF DESCRIPTIVE WELL DATA

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing information for a water well. (See

attached.)

USER(s): Hydrologist; Geologist; LOCATION(s): SO's; DO's; RAH's; etc.

Natural Resource Specialist; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialist to Quarterly for others

DEPENDENCIES: None

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, REQUEST PARAMETERS:

Ground-Water Site (145-5149)

2-09

Frog. Area: Watershed-Geol. Free. By: 8. Lipscono Oute: 21 June 28 (Bry

Page 1 of 2

OUTHER TRUE THE CONTROLLED THE DANK

OUTPUT FORM: Printout/Bata Display

CUTFUT DESCRIPTION: A teble summarizing information for a water well. (See a tracked.)

USER(s): Hydrologist; Goologist; etc. 10cATTON(s); SC's; NAM's; etc. Haturel Resource Specialist; etc.

USAGE: As input to URA, EAR's, ES's, accluity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: OSSIRED: 1 EM 3 nours REQUIRED: 1 day

ERECHENCY OF PRODUCTIONS Manchly for NAM/OR Specialist to Dust selly for shorts

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REQUEST PARKHETERS: State, Administrative (200-0004) or State, Geographic (100-0543); Numbon, Geographic Administrative (100-0543); Numbon, Geographic State (145-5149)

GD-5

# OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE:

TABLE OF DESCRIPTIVE WELL DATA

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME: 4 per District

COMPUTATIONS/PROCESSES: None

ACCURACY:

NA

SCALE: NA

ANNOTATIONS:

LEGEND:

NA

**REMARKS:** 

None

OUTSOIT TITLES TABLE OF DESCRIPTIVE WILL RATE

SORT ORDERS : Identified to sequence of request parameters

ESTIMATED VOLUMES & DOC DISCHOOL

COMPUTATIONS, PROCESSES: None

ACCORNCY: 18A

SOURE: 188

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(0004		Well Number (5149)	Owner or Name (5153)	Date (5105)	(5184)	(5181)	(Feet) (5174)	(Feet) (5173)	(5187)	(In.) (5163)	(5182)	(5195)	(5186)	(5179)	(Feet) (0431)	(5157)	(5106)	(5160)
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		06N/12W-04R01 S 06N/12W-05A01 S 06N/12W-05A02 S 06N/12W-06B01 S 06N/12W-06M01 S	Gospel Church White Fence Fms White Fence Fms McDonald Quartz Hill Cwd	1963 1963	1948	н				14 4 12	5 V 6	S T P N	H P H U	M M M	2576 2533 2533 2534 2553	P M	P	D
WS-56		06N/12W-07A01 S 06N/12W-07A02 S 06N/12W-10C01 S 06N/12W-11D01 S 06N/13W-01F01 S	Sunnyside Farms Sunnyside Farms U.S. Government U.S. Government	1963	1951 1954 1919	. Н Н	432 456	276 259	F	14 14	V 5	T T	P P U	W Z U Z	2597 2589 2588 2565 2523		P P	D D
		06N/13W-02F01 S 06N/13W-02N01 S 06N/13W-02N02 S 06N/13W-02P01 S 06N/13W-02Q01 S	J. Hunter Godde Bros. J. Godde	1963 1963 1963 1963 1963	1886 1937 1920	D D D		•	•	36 10 12 10 48	т	N T N N	טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	U U U U	2568 2725 2654 2702 2664		P	
		06N/13W-02Q02 S	J. Godde J. Godde Latrell J. Godde	1963 1963 1963 1963 1963	1936 1900	H	•			8	5	S	Н	W Z Z Z Z	2662 2702 2632 2679 2614		P	44
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Prog. Area: Watershed-Geol. Prep. By: G. Lipscomb

Date: 21 June 78 (Revision)

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: TABLE OF DESCRIPTIVE SPRING DATA

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing information for a spring (see attached).

USER(s): Hydrologist; Geologist; SO's; DO's; RAH's; etc. LOCATION(s): Watershed Specialist; Natural Resource Specialist; etc.

As input to URA, EAR's, ES's, activity plans, and project design. USAGE:

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to Quarterly for others.

DEPENDENCIES: None

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, REQUEST PARAMETERS:

Ground-Water Site (145-5149)

Prog. Area: Materand-Geol. Prop. By: 5, Lipscond Data: 21 June 78 (New 1

COTTUT DESCRIPTION

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Curry Fork: I'm Princest/Octa Orsplay

OUTSIT DESCRIPTION: A table summerfaing information for a soring (see attached).

USER(a): Www.logist: Goologist: Localida(a): 50's; 60's; RAN's; etc.
Materahed Specialist: Natural

UEAGE: As Input to URA, EAR's, ES's, octivity plons, and ornject loston,

ACCESS LIMITATIONS: Nona

PERSONNI TIMES: DESIRED: 1 to 1 yours | Navigen, 1 day

TREUMENCY OF FRODUCTIONS Monthly for RANAM Saccollages of Monthly for actions

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G0-9

# OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE:

TABLE OF DESCRIPTIVE SPRING DATA

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME: 2 per District

COMPUTATIONS/PROCESSES: None

ACCURACY:

SCALE: NA

ANNOTATIONS:

LEGEND: NA

REMARKS: None

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# TABLE OF DESCRIPTIVE SPRING DATA

State::(0004) (0690) District: (0543)

Site Number	Owner or Name	Date Measured (Disch)	Discharge (GPM)	Method Measured	Permanence	Water Use	Improve- ments	H N E A	Alti- tute of LSD
(5149)	(5153)	(5145)	(5316 & 5315)	(5146)	(5110)	(5186)	(5108)	(5157)	(0431)
04N/25W-18KS1 S 04N/25W-18QS2 S 04N/25W-18QS3 S 04N/26W-04PS1 S 04N/26W-13HS2 S	Tuckerman Tuckman	12/ /43 10/ /67	1 <b>.</b> 97	JAN STHEE Z. SANT'S, EST		u u u	Page Loc 2	P P	275 225 250 ,750 675
04N/20W-13N32 5	riyiii			is activity o		api ines of e			700

Prog. Area: Watershed-Geol. Prep. By: G. Lipscomb

Date: 21 June 78 (Revision)

### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: WATER-LEVEL CONTOUR MAP

Map/Graphic Display OUTPUT FORM:

A graphic display of isolines of equal altitude of ground-OUTPUT DESCRIPTION:

water surface within a planning area. (See attached.)

Watershed Specialist; Planners; etc. USER(s): Hydrologist; Geologist;

As input to URA Step 2, EAR's, ES's, activity plans, and project design. USAGE:

ACCESS LIMITATIONS: None

1 week RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED:

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Name, Ground-Water Basin (145-5431). **REQUEST PARAMETERS:** 

Prog. Ares: M.tarshed-Gool.

STORE TOT 2

DUTFUT FORM: MapAirsonic Display

COTPUT DESCRIPTION: A graphic display of isolines of squal altitude of ground-

USER(s): Hydrologist; Geologist; Edeatica(s): 50's; DO's; RAN's; etc.

USAGE: As imput to UGA Step 2, EAR's, ES's, activity plans, and project design.

MODERS LINGSHOOMS: None

RESPONSE TIMES: DESIRED: T to 3 days. ASSULAGE: I Meet

EMCOURAGE OF EXCENSIONS MONTHly for PANIO specialists to quarterly for others.

DEPENDENCIES TO NORM

SERVICET PARAMETERS: State, Administrative (100-0004) or State, Scorephic (100-0000); Otstrict, Administrative (100-0043); Planning Unit (100-1076); Manne, Ground-Mater Basin (145-5431).

G0-10

### **OUTPUT DESCRIPTION** Page 2 of 2

OUTPUT TITLE:

WATER-LEVEL CONTOUR MAP

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME: 1 per District

COMPUTATIONS/PROCESSES: Computation required for (1) location and plotting of well sites within a planning or inventory area on map, (2) altitude of water surface at each site on a specified date, and (3) isolines of equal water surface altitude interpolated graphically from well site water surface altitude.

ACCURACY: Within 5%

1:24,000 and 1:125,000 SCALE:

ANNOTATIONS: (See attached output sample.)

Standard map symbols to depict isolines, well sites and boundary LEGEND:

of ground-water basin (see legend on attached sample).

REMARKS: None

01-09

MOST WEST TOWN

COURSE THESE MATERIALISMS INCHES

SOUT ORGERS | Identifical to sequence of request parentiers

ENTENDED VOLUME: 1 sec. Districted

COMBILATIONS/PROCESSES Comparation required for (1) location and plotting of well siess within a planning or inventory arms on mor. (2) sittbuck of water turning a specified date, and (3) testines of equal moor surface surface surface surface surface.

ACCURACY: WELFT SE

1:24,000 and 1:725,000 and

AMOUNTATIONS: [Size accorded to true sample.]

LEGGIO: Standard map symbols to depict idelines, well sites and boundary of ground-water basis (see lagend on attended camela).

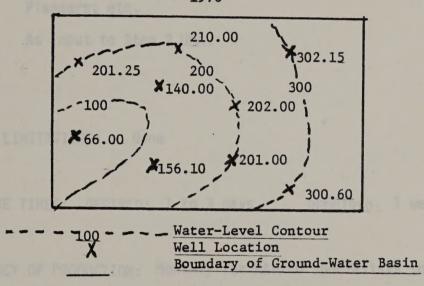
NAME OF STREET

#### WATER-LEVEL CONTOUR MAP

State (0004) (0690)
District (0543)
P. U. (1075)
Name, Ground-Water Basin (5431)

Date: (2195)

#### Water-Level Contour Map 1976

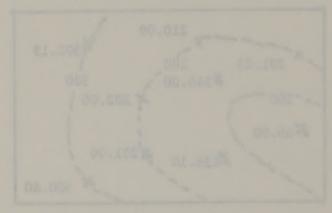


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Prog. Area: Watershed-Geol.

G. Lipscomb Prep. By:

Date: 21 June 78 (Revision)

#### **OUTPUT DESCRIPTION** Page 1 of 2

OUTPUT TITLE: TOPOGRAPHY OVERLAY

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of isolines of equal land surface elevation. (See attached.)

USER(s): Geologists; Geomorphologist; LOCATION(s): SO's; DO's; RAH's; etc.

Natural Resource Specialist;

Planners; etc.

USAGE: As input to Step 2 URA.

ACCESS LIMITATIONS: None

REQUIRED: 1 week RESPONSE TIMES: DESIRED: 1 to 3 days

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others.

None DEPENDENCIES:

State, Administrative (100-0004) or State, Geographic REQUEST PARAMETERS:

(100-0690); District, Administrative (100-0543); Planning

Unit (100-1075)

Prog. Area: Matershed-Gen7. Prep. By: S. Lipscomb Date: 27 June 78 (Revision

SOTPOT DESCRIPTION

DESTRUCT TETLE: TOPOGRAPHE AVEILAND

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OUTFUT DESCRIPTION: A graphic disaley of leaffness of equal lead surface

USTR(s): Seologists: Geomorphologic, LCCATION(s): 50's; 30's: RANYs; etc.

INSAGE: As input to Stee 2 In

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REPONSE TIMES: CESTRED: 1 to 3 days conjuneur 1

CECURALLY OF PROGUCTION; Monthly for PINARO specialists to quarterly for process

DEPCHDENCIES; Nove

es State, Nataleterative (100-000) or State, Seamonthy entropy

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60-12

# OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: TOPOGRAPHY OVERLAY

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 3 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000).

ANNOTATIONS: (See attached sample output.)

LEGEND: Standard map symbols for a topographic map.

REMARKS: None

# CONTUST PESCRIPTION

OUTPUT TETLES TOPOGRAPHY OVERLAY

SORT CHOCKET Identical to consumer of request parameters

ESTINATED VOLUME: A PER DISCRETE COMPUTATIONS/PROCESSES: None

ACCURACY: WICHIN SE

SCRIES Verisons (Find at 1:25,000, 1:62,500 or 1:125,000).

ANNOTATIONS: (See attached sample output.)

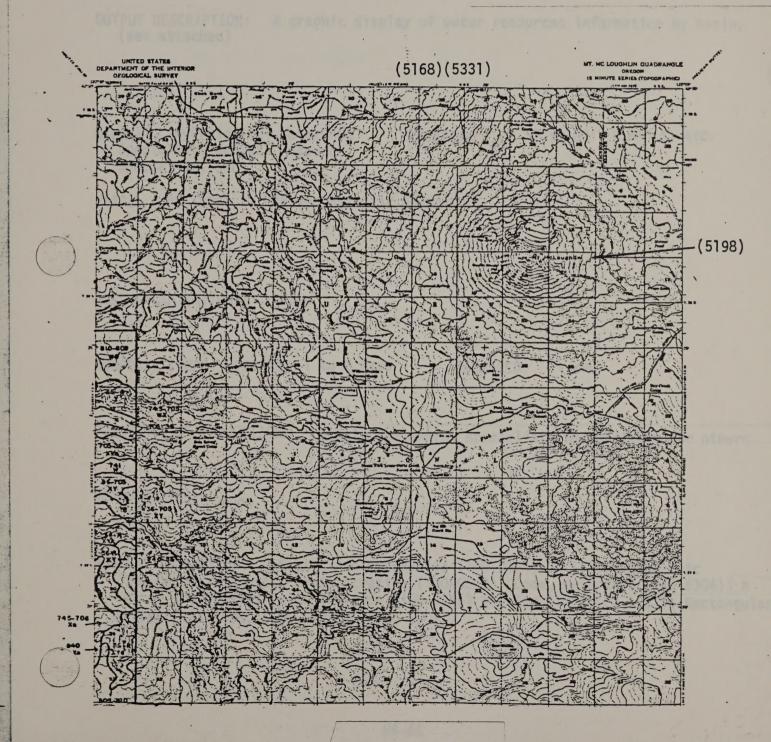
LEGEND: Standard map symbols for a topographic map.

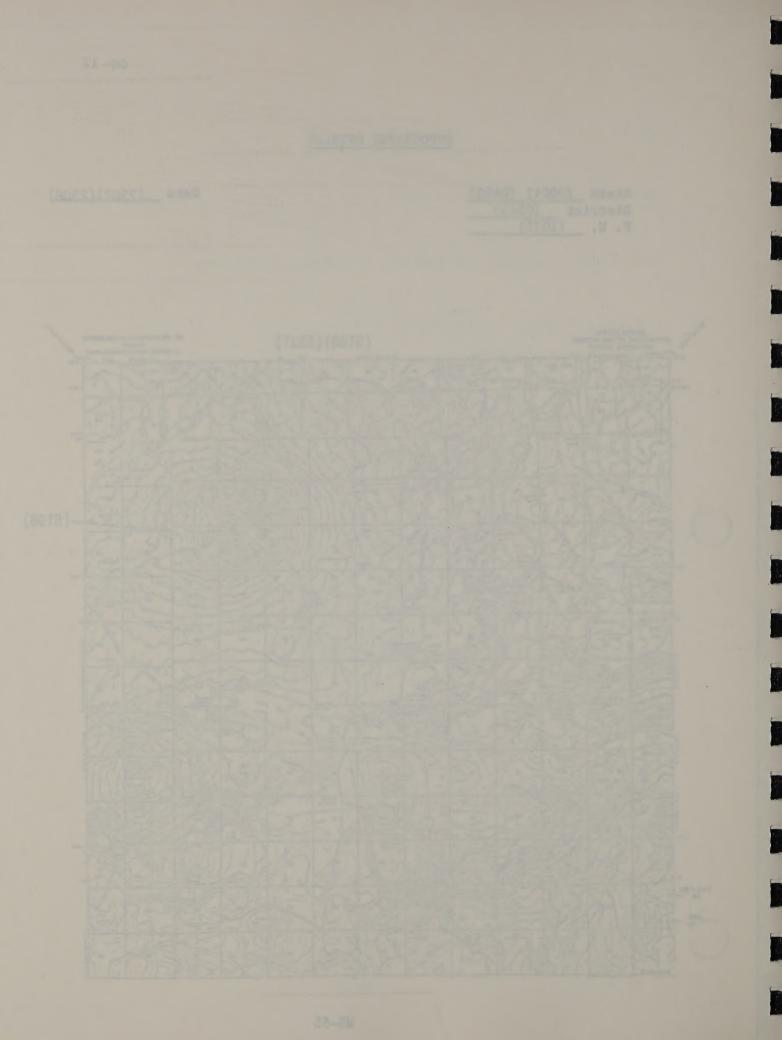
proof : EXELUSE

#### TOPOGRAPHY OVERLAY

State (0004) (0690)
District (0543)
P. U. (1075)

Date (2302)(2306)





Prog. Area: Watershed-Water

Prep. By: G. L Date: 21 J

G. Lipscomb 21 June 78 (Revision)

W0-1

#### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Water Resources Overlay by Basin

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of water resources information by basin. (see attached)

USER(s): Hydrologist; Watershed
 Specialist; Natural Resource
 Specialist; etc.
LOCATION(s): S0's, D0's; RAH's, etc.

USAGE: As input to URA and activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304); a set of coordinates (e.g. latitude (100-1236) and longitude (27-1237); Rectangular Survey (127-1695, 1699, 1703, 2506, 2904).

Prog. Area: Matershed-Mater Prep. By: G. Lipsconb Cate: 21 June 78 (Revision

BESCHER TOTAL

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CUTPUT FORM: Mag/Graphic Otsplay

OUTFUT DESCRIPTIONS A graphic display of water resources information by basin.

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ACCESS LIMITATIONS: None

RESPONDE TORES: DESIGNED I SO 5 days

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ENDINGMENT OF PRODUCTIONS Maked with DAMAGE STREET Late. TO CHESTER For Others

DEPENDENCIES: None

REDUEST PARASETIRS: State, Administrative (100-0004) or State Geographic (100-0690); of coordinates (e.g. introde (100-1236) and Tongstude (27-1237); Rectangul Survey (123-1695, 1695, 1995, 2006, 2006).

#### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Water Resources Overlay by Basin

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 2 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached copy of output sample)

LEGEND: Standard map symbols for boundaries of basin/watershed, gauging stations, etc. (see legend on attached sample)

REMARKS: None

COTPUT TETELT: Manual Resources from Law 20 Septa-

SORT DROERS Identical to assume of request permaner

ESTIMATED VOLUME: 2 var 3fabrich.

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SCALE: Verteble (\*\*125,000, 1:02,000, or 1:125,000)

AMOUNTATIONS: (See accached copy of swings sample)

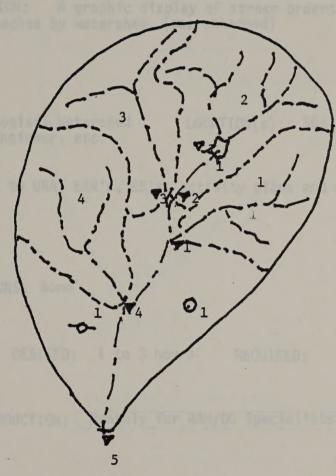
programs - Scenared was symbols for boundaries of healthwatershed, gauging stations, see, less lacered on stratted complet

REGULESS: NOTA

WATER RESOURCES OVERLAY BY BASIN

State: (0004) (0690) District: (0543)

Basin Name: (5304) (5416) Date: (2302)(2306)



Basin boundary

Watershed boundary

Stream gaging station number 1 (5303)(5302)

Watershed Name (5416)

Reservoir No. 1 (5464)(5463)

Reservoir gaging station number 1 (5303) (5302)

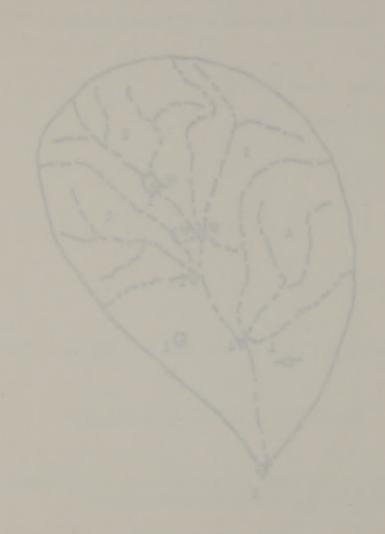
Well Monitoring station number 1 (5149)

WS-68

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Beatruit paging station curies 1 (5303) (5302)

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19

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb

Date: 22 June 78 (Revision)

W0-5

# OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Channel and Stream Information Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of stream orders, stream cross-sections, and stream reaches by watershed (see attached)

USAGE: As input to URA, EAR's, ES's, activity plans and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304); a set of coordinates (eg latitude (27-1236) and longitude (27-1237)); Rectangular Survey (127-1695, 1699, 1703, 2506, 2904).

2-01

# Comment of Scripping

Cultur little: Charmel and Stream Information Dyerlay

CETTED, FORTH MAD GROUNTS DESPINY

CUITPUT DESCRIPTION: A graphic display of stress orders, screen cross-sections.

USER(s): Updrologist: Materials

the second second second

USAME: As front to DAA, EUR'S, ES'S, activity place and project designs.

ACCESS LIMITATIONS: Now

RESPONSE TOWERS, DESTRONA | See 2 hours | NEGUTASD: 1 day

PREGUSARY OF PRODUCTION: Manchily for MANAGO Specialists to quarterly for others

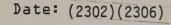
DESCRIPTION OF STREET

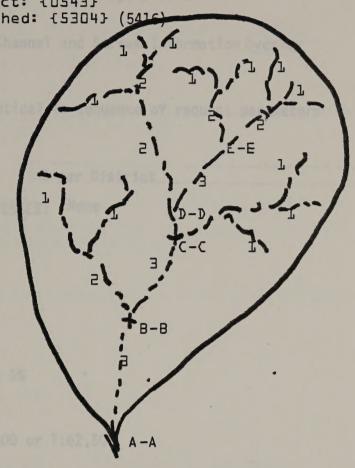
REGREST FARMETERS: State, Administrative (100-0004) or State Receiphic (100-0000); Order Farmeters (100-0000); Administrative (100-0000); Code, Vatorshed (145-5004); A countinates (eg latitude (27-1236) and longitude (27-1237));
Rectangular Survey (127-1695, 1699, 1701, 2506, 2904).

State: {0004} {0690}

District: {0543}

Watershed: {5304} (541





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Stream of first order --1--

Stream of second order (5335)

Stream of third order --3--

Cross-section of stream at mouth of basin (5347) A-A

Reach of Stream between A-A and B-B (5351)

Basin boundary

Direction of flow

The state of the s

W0-5

#### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Channel and Stream Information Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 2 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: within 5%

SCALE: 1:24,000 or 1:62,500

ANNOTATIONS: (see attached sample output)

LEGEND: Standard map symbols to depict stream location data (see legend on attached sample)

REMARKS: None

POST 2 OF 2

CHIPPUT TITLE: Chancel and Steam Information Quartey

SORT denging Identified to sequence of request personners

ESTINATED VOLUME: 2 per District

COMPURATIONS/PROCESSES: Nome

ACCURACY: NUMBER SX

SCALE: 7:24,000 or 1:62,500

AMIOTATIONS: (see attached sawnle output)

bucking: Standard map symbols to depict stress location data (see legend on account sample)

STORES NOTE NOTE

Prog. Area: Watershed-Water Prep. By:

Date:

G. Lipscomb

22 June 78 (Revision)

WD-13

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Table of Surface\_Water Quality Analyses

OUTPUT FORM:

Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water quality parameter values for a water quality station (see attached)

USER(s): Hydrologist; Water Quality LOCATION(s): SC; SO's; DO's; RAH's; etc. Specialist; Watershed Specialist; Engineer; etc.

USAGE: As input to URA, EAR's, ES's, activity plans and project design

ACCESS LIMITATIONS: None

1 day RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED:

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station type (145-5303)

EI-BU

Page 1 of 2

Table of Surfaceshaver Quality Analyses

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USASE: As input to UFA, EAR's, ES's, octivity plans and project design

ACCESS ADDITATIONS HOME

MESPONSE TIMES: DESIRED: I bu 3 hours REQUIRED: I day

PREQUENCY OF PROSUCTION: Controlly for PARKOD Schools to mearterly for others

DEPCHOENCIES: .. None

REQUEST PARAMITMS: Stare, Administrative (100-0004) or State, Geographic (100-0000); Drachter, Administrative (100-0543); Code, Watershed (145-5304) Number, Starton type (146-5303)

WO-13

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Table of Surface-Water Quality Analyses

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME:

12 per district

COMPUTATIONS/PROCESSES: Selection and display of extremes for various water quality parameters together with other gauging station site information (see attached sample output)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

DETRUT DESCRIPTION

E1-07

OUTPUT TETLES TABLE OF SUPPRES-SUREY QUATTER ANALYSIS.

customeras resuper to somewise of factorial

SOME DRINGERS

TENUATED VOLUMES TO SELECT THE PROPERTY OF THE PERSON OF T

CONTRACTORS, PROCESSES: Selection and display of extremes for various water quality derimates topoclar with other quality station size information (see attached sample output)

ACCURACY: N/A

SCALE: IVA

AUROTATIONS: TA

ANN : CODERS

SCHOOL SECTION

State.--(0004)(0690) Sun River Basin (5304)(54/6)
District.--(0543) (5303) 06088300 Muddy Creek near Vaughn, MT (5302)
Location.--Lat 47°37'30", long 111°38'05", in NW-1/4 NE-1/4 sec. 32, T. 22 N., (1236)(1237)(1703)(1695)(1699)
R. 1 E., Cascade County, at gaging station at bridge on county road and 6.2 mi (10.0 km) northwest of Vaughn.

Drainage Area.--282 mi<sup>2</sup> (730 km<sup>2</sup>). (5321)
Period of Record.--Chemical Analyses: July 1968 to September 1975.

Water Temperatures: July 1968 to September 1975.

Sediment Records: July 1968 to September 1975.

Extremes.--1974-75:

Extremes. --1974-75:
Specific Conductance: Maximum daily, 1,890 micromhos Apr. 18; minimum

Specific Conductance: Maximum daily, 1,890 micromnos Apr. 10; minimum daily, 557 micromhos Aug. 10. Water Temperatures: Maximum 27.5°C July 6; minimum, freezing point on many days during November to March.

Sediment Concentrations: Maximum daily, 9,870 mg/l Apr. 27; minimum daily, 21 mg/l Oct. 26, 27.

Sediment Discharge: Maximum daily, 48,000 tons (43,500 tonnes) May 7; minimum daily, 2.4 tons (2.2 tonnes) Feb. 6.

Period of Record: Specific Conductance: Maximum daily, 4,130 micromhos May 11, 1970; minimum daily, 365 micromhos Feb. 20, 1969.
Water Temperatures: Maximum, 27.5°C July 6, 1975; minimum, freezing

Water Temperatures: Maximum, 27.5°C July 6, 1973; minimum, Freezing point on many days during winter periods. Sediment Concentrations: Maximum daily, 9,870 mg/l Apr. 27, 1975; minimum daily observed, 11 mg/l Oct. 19, 1968, Oct. 19, 1972, Oct. 30, 1973. Sediment Discharge: Maximum daily, 48,000 tons (43,500 tonnes) May 7, 1975; minimum daily, 0.84 ton (0.76 tonne) Jan. 8, 1973. Remarks.—Flow affected by ice during most of winter months. Natural flow increased by wastage from Greenfields Irrigation Project.

Increased by	wastage	110	m Gr	eenr	rera	2 11	riga	tion	Pro	ject	•		
Dis- solved Sulfate (SO4) (MG/L)	160	200	200	240	230	340	480	350	130	120	88	180	1
Bicar- bonate (HCO3) (MG/L)	351	372	376	404	387	349	241	365	244	247	279	324	
Solved Po- tas- sium (K)	2.3	2.5	1.8	2.2	2.1	3.3	4.7	3.5	1.7	2.3	1.6	1.8	
Dis- solved Sodium (NA) (MG/L)	49	09	64	99	89	83	120	100	34	35	30	49	
Dis- solved Mag- nesi- um (MG)	28	28	99	וו	63	83	74	11	36	37	38	53	5 8 3
Dis- solved Cal- cfum (CA)	53	59	52	64	19	69	64	73	47	49	49	25	(5315) - (5316)
Dis- solved Man- ganese (MN)	10	0	10	02	0	20	20	30	0	0	20	0	(2)
Dis- solved Iron (FE)	40	10	. 01	10	10	20	10	20	30	0	0	50	
Dis- solved Silica (SI02)	5.7	5.4	7.3	7.6	8.8	7.6	6.3	7.4	4.2	7.3	6.3	5.1	
Temper- ature	9.0	3.5	1.0	rů.	0.	0.	3.0	10.5	12.5	21.0	18.5	11.0	
Instan- taneous Dis- charge	66	26	45	33	27	34	123	165	506	267	400	155	(5150)(6926) +
2	1230	0660	1015	0060	1000	0660	1000	1130	1030	2030	1400	1325	9)(0
	Oct. 03	Nov. 07	Dec. 05	Jan. 08	Feb. 20	Mar. 18	Apr 24	May 14	June 12	July 16	Aug.	Sep. 17	(515)

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Prog. Area: Watershed-Water

Prep. By:

G. Lipscomb

Date: 22 June 78 (Revision)

WO-15

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Table of Water Quality Analyses for Ground Water

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water quality data for a ground-water site (see attached)

USER(s): Hydrologist; Geologist; Watershed Specialist; Water Quality Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-water Site (145-5149)

Prog. Area: Materchec-Water Prop. By: S. Lineson Date: 22 June 78 (Factstee

COULS DESCRIBLION

CUTPUT TITLES Takes OF Males Coultry Analysis for Grayed Mater

CUTTUT DESCRIPTION: A cable turnerizing water quality data for a pround-dater

COLITY Specialists Geologists Colombian Colombian Specialists (s): 50's; 50's;

WEARE: As input to URA, EAR'S, ES's, activity plans, and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: T to 3 hours REQUIRED: 1 day

PRESIDENCY OF FIGURETION: Mortely for SANTOD Specialists to quarterly for others,

STATE OF THE PARTY OF THE PARTY

(100-0650): Utacrict, Administrative (100-0004) or State, Geographic (100-0650): Number, Ground-water Size (165-0543): Number, Ground-water Size

WB-15

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Table of Water Quality Analyses for Ground Water

SORT ORDER: Identical to sequence of request parameter plus Parameter, Water Resource (145-5316)

ESTIMATED VOLUME: 6 per district

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

21-51

PAGE 2 of 2

OUTPUT TITLES Table of Mater Quality Analyses for Ground Mater

SURT DEDIE: Identical to ampuonce of request parameter plus Parameter, Water Hasounder (145-5316)

ESTIMATED VOLUME: 6 par district

CHIPUTATIONS/PROCESSES; None

ACCURACY: N/A

SCALES NAME

ANNOTATIONS: N/A

AVI : COGGGG

HENDRIS: None

(0004)(0690) STATE (0543) DISTRICT (5149) SITE NUMBER

# TABLE OF WATER QUALITY ANALYSES FOR GROUND WATER

DATE of SAMPLE (5150)	DIS SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (5318	DIS SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) 5) (5316)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG. C)
64-07-00 64-07-00 72-09-22 64-03-31 60-10-14 60-10-30	210  46 20 8.0 11 17 22 20 27 23 25 26 22 18 20 16 11 16 23 27 27 27 21 20 18 9.0 7.0 8.0	65 9.0 19 23 4.0 2.0 5.0 5.0 4.0 4.0 4.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	.1 .4 .4 .8 .7 .5 .7 1.0 .6 .5 .5 .8 .8 .7 .6 .8 .3 .5 .6 .5 .5 .6 .5 .7 .6 .8 .7 .6 .6 .7 .6 .6 .6 .7 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	M.00 M.00 1.4 10 3.0 .00 2.0 .00 4.0 3.0 4.0 3.0 4.0 5.0 5.0 5.0 4.0 3.0 4.0 3.0	280 262	716 235 145 166 167 182 196 186 181 195 198 203 190 186 176 148 175 189 189 189 189 186 201 174 189 157 151 149 173 181	310 56 100 130 68 74 80 64 32 58 10 60 56 60 58 58 56 80 66 74 56 78 58 60 64 76 18 14 16	110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 40 41 41 45 55 80 61 58 60 69 60 61 61 61 60 	1000 286  416 272 252 269 266 300 284 244 284 309 284 256 295 295 295 292 269 269 277 277 292 284 262 259 284 262 259 284 265 277 277 292 284 266 277 277 277 277 292 284 266 266 277 277 277 277 277 277 277 277	8.2 8.0 7.8 7.9 8.3 8.4 8.6 8.2 8.0 8.2 8.3 7.5 8.1 8.2 8.3 8.1 8.2 8.3 8.1 8.2 8.3	

Prog. Area: Watershed-Water

Prep. By:

G. Lipscomb Date: 22 June 78 (Revision)

WD-35

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Table of Water Developments by Resource Activity .

OUTPUT FORM:

Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water development projects for a planning area (see attached)

USER(s): Watershed Specialist; ER(s): Watershed Specialist; LOCATION(s): SO's; DO's; RAH's; etc. Natural Resource Specialist; Planners, etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly for RAH/DO Specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Type of Project (145-5463)

Prog. Area: Matershed-Mater Prep. By: E. Linscont Date: 22 June 78 (Revision

S TO F SQUE

25-39

Table of water Developments by Esseence Activity

13,1111 1097100

Princeson Date Display

COLEUT FORMS

COTFOR DESCRIPTION: A Cable summarising mater development projects for a planning area (see actaches)

USER(s): Naturalist Section (a) Particular Section (s): Sole; DO's; RAH's; etc.

USAGE: As Yange to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 7 to 3 days REQUIRED: 7 week

FREDERICY OF PRODUCTIONS GUARDARDY for RAPIGO Specialists to senually for others

DEPENDENCIES: None

PERCENT PARAMETERS: State, Audinferrative (100-0004) or State Geographic (100-0090); State of Project (100-1075); Standing Unit (100-1075); Type of Project (100-1075);

WD-35

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Table of Water Developments by Resource Activity

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 6 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: Input for this output may be provided by JDR System (0005)

CULTAIL DESCRIPTION S OF S

22-00

COTFOR TIPLE: TABLE OF Matter Developments by Mannarce Activity

NORT ORDER: IDENTICAL to suquence of fequent parameter

ESTINATED VOLUNES & per literatet

COMPUTATIONS/PROCESSES: None

ACCURACY: HA

SCALE: N/A

ANNOTATIONS: N/A

ALEGENO: N/A

Input for this output may be provided by Jos System (0005)

HENNEST:

# TABLE OF WATER DEVELOPMENTS BY RESOURCE ACTIVITY

State (0004) (0690) District (0543)

(2302)(2306)

P.U. <u>Little Hills (1075)</u> Date <u>8/17/74</u>

(5463)	(5464)  OVERLAY KEY NO.  OR PROJECT NO.	(5465) DIRECT BENEFITING RESOURCE ACTIVITY	(5466)  MAJOR OBJECTIVE	(5467) (5468) AMOUNT/ SIZE
Reservoir	2536	Wildlife	Big Game Summer Water	l ac. ft.
Guzzler	2764	Wildlife	Upland Game Water	300 gal.
Well	2765	Livestock	Distribute Grazing	30/gal/min
	IRID: 1 to 3 d	us list	ULRED: 1 week	
	10%: Quarterly	for RIH/DD	Specialists to any	and y for
	(18)			
REPETERS:	State. Administrat	tractive (1 vs. (700-05	00-0006) or State.	megraphi 300-7075

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(2302)(2306)

(170) 2019

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(3467)		(5003)	
(78)			
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om region '			
	-		

Prog. Area: Watershed-Water Prep. By:

G. Lipscomb

Date:

22 June 78 (Revision)

W0-36

#### OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Water Quality and Yield Overlay by Planning Unit

**OUTPUT FORM:** Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display depicting the location of water quality monitoring stations, water quality problem areas, water yield areas, etc. (see attached)

USER(s): Hydrologist; Watershed LOCATION(s): SO's; DO's; RAH's, etc Specialist; Water Quality Specialist, etc.

As input to Step 3 for URA USAGE:

None ACCESS LIMITATIONS:

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly for RAH/DO Specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

trop. Area: Materahed-Water trop. Sy: G. Lipscorb teta: 22 June 18 (Soutsion)

COUNTY DESCRIPTION

NO-36

COTFOIT TITLE: Voture Quality and Yield Overlay Spritsonates United

dureur of scalerions is grachic display denicting the location of water enality and community seems, water yield areas, etc. (see attached)

use a file a foote a f

USAGE: As fogut to Stup 3 For USA

ACCESS CINITATIONS: Many

RESERVED TOTAL TOTAL CONTROL OF SOME PROPERTY FORK

THE CUENCY OF PRODUCTION: Checking wing SAHAOO Specialists to appearably for others

DEPENDENCIES: None

W0-36

#### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Water Quality and Yield Overlay by Planning Unit

SORT ORDER:

Identical to sequence of request parameter

ESTIMATED VOLUME: 1 per District

COMPUTATIONS/PROCESSES:(see attached sample)

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: (see attached sample)

LEGEND: Standard map symbols to depict boundaries of water quality/yield areas and station locations (see legend on sample)

REMARKS: None

MOITHING TOWNED OF STREET

CUTPUT TITLES Mater Quality and Visit Overlay by Planning Unit

SORT CROER: Identical to sequence of request persenter

ESTINATED VOLUME: T per District

COMPUTATIONS/PROCESSES (see attached sample)

he election :

see get 1000 (1000 ot 1021,000, 1082,500 or 10125,000)

ANNOTATIONS: (see attaceed ample)

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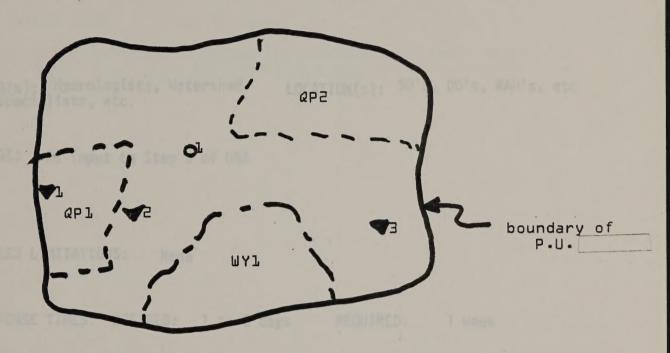
: 239,011,39

#### WATER QUALITY & YIELD OVERLAY BY PLANNING UNIT

State: {0004} {0690} District: {0543}

P.U.: {1075}

Date: (2302)(2306)



#### Legend

▼1 Water quality monitoring station No. 1 {Stream} (5303)(5302)

● 1 Water quality monitoring station No. 1 {Well}

Water quality problem area {sediment from area with poor ground cover}

Water quality problem area {sediment from area with poor ground cover}

Significant water yield area {municipal water supply}

WYL

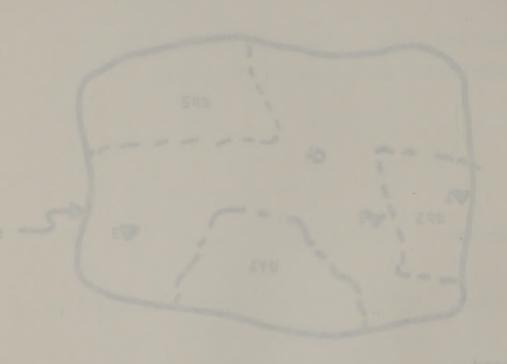
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QP2

TIMU CHIMPASS YO VALUES O GARLY & YTLAND SEVAN

Fater (2302)(2305)

States (DEPO) (DEPO)



treen. I i . of northering station los i (Linean)
beter quality monitoring station No. i (uell)

dater quality problem area (sediment from ground cover)
dater quality problem area (sediment from area with poor

Significant water yield area inunicipal water supply?

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb

Date: 22 June 78 (Revision)

WO-37

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE: Table of Significant Water Yield Areas

OUTPUT FORM:

Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing mean annual runoff and mean annual water yield for significant water yield areas within a planning area (see attached)

USER(s): Hydrologist;, Watershed LO Specialists, etc.

LOCATION(s): SO's, DO's, RAH's, etc

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly for RAH/DO Specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Code, Watershed (145-5304)

Prog. Area: Watershotshotser
Prop. 8y: \_C\_linaposth

ITHUM230 TUNTUD

OUTOUT THE CONTROL OF STREET AND STREET

OUTPUT DESCRIPTION: A table summarizing mean angul factor and mean accused weter yield for significant water yield areas within a planning area (see attached)

USER(s): Hydrologist:, Matershed

U.J

ARU To E costs of URA

ACCESS LIHITATIONS:

RESPONSE TIMES: 1 to 2 days

OSPERATION CONTRACTOR

SEQUEST PARAMETERS: State, Administrative (100-0004) on State, Geographic (100-050); Planning Unit (100-1075) Code, Natural (105-5004)

WC-37

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Table of Significant Water Yield Areas

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 per District

COMPUTATIONS/PROCESSES: Computation of mean annual runoff (inches) and mean annual water yield (acre feet) from gauging station recorded values for a planning area

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

VE-BY

OUTPOT OSSCRIPTION

OUTPUT TITLE: Jable of Stynificant Value Vield Areas

ORE ORDERS ' Identical to sequence of request parameter

STEEL ED VOLUME: ] DOP DISTRICT

COMPUTATIONS/PROCESSES: Computation of mean annual numoff (inches) and mean annual vater yield (acre feet) from gauging station recorded values for a planning area

ACCURACY: N/A

ANM

L. C.

LEGENO: IVA

REMARKS: None

### TABLE OF SIGNIFICANT WATER YIELD AREAS

State: (0004) (0690)

District: (0543)

Planning Unit: (1075)

Date: (2302)(2306)

Watershed Name	Map Key	Acres		Mean Annual Runoff (inches)	Mean Annual Water Yield (acre feet)
	100	BLM	Other	3 0 5	•
(1) 85 (5416)	(2) (5304)	(3) (6594)	(4) (6597)	(5) (5417)	(6)

<sup>(5)</sup> Runoff-mean annual inches of estimated runoff

<sup>(6)</sup> Yield= (Column 3 + Column 4) X Column 5 + 12

# JANUA OR STORITATIONS AND ATTENDED WHEN

100 (SSS) (60)

Districts (0272)

Stelle (Calvan 2 + Column 4) X Column 2 + 15

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb

Date: 22 June 78 (Revision)

WD-38

OUTPUT DESCRIPTION Page 1 of 2

OUTPUT TITLE:

Flood and Sediment Damage Overlay

**OUTPUT FORM:** 

Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the boundaries of flood/sediment damage areas and source areas within a planning area. (see attached)

USER(s): Hydrologists: Watershed LOCATION(s): So's; DO's; RAH's, etc. Specialists; Water Quality Specialists Etc.

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly for RAH/DO Specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

Prog. Areas Matershed-Macer Prep. By: G. Lipscomb Jates 22 June 78 (Raylston

ONTENT DESCRIPTION

Flood and Sedfrant Dampe Overlay

Map/Graphic Otsplay

our our necessary of crophic display of the boundaries of flood sediment dumage areas and source areas within a planning area. (see attached)

USAGE: As input to Step 3 of URA

METTER LIMITATIONS: PORT

RESPONSE TIMES: DESIRED: 1 to 3 days 3: REQUIRED: 1 week

PRECUENCY OF PRODUCTION: Quercosty for PANAD Specialists to appeal by for others

DEPENDENCIES: None

REQUEST PARAMETERS; State, Administrativo (103-1004) or State, Ecographic (100-0543); Planning Unit (100-1076)

WD-38

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Flood and Sediment Damage Overlay

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 per District

COMPUTATIONS/PROCESSES: See attached sample

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: See attached sample

LEGEND: Standard map symbols for depicting damage and source areas on a map for planning area (see legend on sample)

REMARKS: None

OUTFUT DESCRIPTION

SE-DV

DUTFUT TITLE: Flood and Sediment Damage Sverlag

reserved formers of receipt of leasing

-HEIRD THUZ

ESTIMATED VOLUME: 1 per Officereck

COMPUTATIONS/PROCESSES: See ettached sample

Accuracy: Within 58

Verlabla (Files IN 1:24,000, 1:52,500 or 1:125,000)

AWNOTATIONS: See extached sample

LEGEND: Standard map rembels for depicting damage and source areas on a map for planning area (see logend on sample)

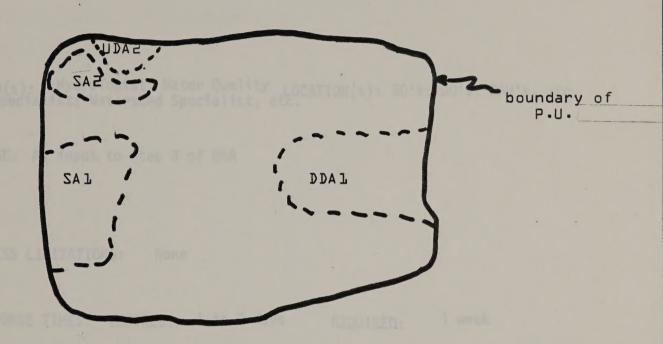
REMARKS: Nov

FLOOD & SEDIMENT DAMAGE OVERLAY

State: {0004} {0690} District: {0543}

P.U. {1075}

Date: (2302)(2306)





(5471)

Damage area No. 1, developed

Damage area No. La undeveloped

Source area for DDAL

Source area for UDA2

TAJENO SCANO TIGHIGE A GOOD TESTANDS CHOOD TESTANDS

Pater (2302)(2305)

Source area for DBAL

NO SWITZE

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb

Date: 22 June 78 (Revision)

WD-39

OUTPUT DESCRIPTION Page 1 of 2

Flood and Sediment Damage Table OUTPUT TITLE:

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing size, type of damage and annual damages for damage area within a planning area (see attached)

USER(s): Hydrologist: Water Quality LOCATION(s): SO's; DO's; RAH's, etc. Specialist; Watershed Specialist, etc.

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days 1 week REQUIRED:

Quarterly for RAH/DO Specialists to annually for others FREQUENCY OF PRODUCTION:

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Area (100-1075); Number, Flood and Sediment Damage Area (145-5471)

Prop. By: G. Lloscomb Brep. By: G. Lloscomb Date: 22 June 78 (Fay)

PE-DUPE-DU

COTPUT DESCRIPTION

OUTPOT TETTES Flood and Scatteric Baseco Table

OUTFUT DESCRIPTION: A table summerished size, type of damage and appear of damage area within a planning area (see attached)

ase tenne to the social tensor (e) masses to the total to the social tensor ten

JSAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

ASSET ( 202010020 2400 2 double of 12001020)

FREQUENCY OF PRODUCTION: OBSERVERLY for SAHIOO Specialists to senually for other

DEPENDENCIES: None

REQUEST PARAMETERS. State. Administrative (100-0001) on State Geographic (100-000): Discrete. Administrative (100-0001): Planning Area (100-1075): (Umber. Flood and Sediment Damage Area (145-5471)

### OUTPUT DESCRIPTION Page 2 of 2

OUTPUT TITLE: Flood and Sediment Damage Table

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 per District

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

OUTFUT DESCRIPTION

DEFECT TITLES Flood and Saddment Damage Table

wedgement's decrease to appropriate the property of leaffield and property of the second pr

ESTIMATED VOLUME: 1-pen. Ofstrict

COMPUTATIONS/PROCESSES: None

Ull Elebenia

800183

£/11

LEGEND: NA

REMARKS: None

FLOOD AND SEDIMENT DAMAGE TABLE

State: (0004) (0690)

District: (0543)

Planning Unit: (1075)

Date: (2302)(2306)

生 方方は 一日本	Damage Area	Acres	Type of Damage	Estimated Annual Damage (dollars)
The state of the s	(1) WS (5471)	(2) (5472)	(3) (5473)	(4)

<sup>(1)</sup> Number on overlay for damage area

<sup>(2)</sup> Acres in damage area

<sup>(3)</sup> Code for type of damage (present or future)

<sup>(4)</sup> Estimated aberage annual dollar damage (present only)

HIGH PRIORITY

WO-45

Prog. Area:

Watershed - Water

Prep. By: Date:

. Lipscomb

22 June 78 (Revision)

### OUTPUT DESCRIPTION Page 1 of 2

**OUTPUT TITLE:** 

Table of Water Resource Inventory Progress

**OUTPUT FORM:** 

Printout/Data Display

**OUTPUT DESCRIPTION:** A table summarizing by watershed the acreage inventoried and that remaining to be completed (See Attached).

USER(s): Hydrologist; Watershed LOCATION(s): W.O.; S.C.; SO;s; DO's Specialist; Planner; Manager

USAGE: As input to reports, AWP progress, programing, and other planning activities for Watershed.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Annually at D.O.

DEPENDENCIES:

None

**REQUEST PARAMETERS:** 

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304)

25-00

Prog. Area: Watershed - Water Prog. By: G. Lipsconb Date: E. Lipsconb

DUTTUT DESCRIPTION

Table of Mater Resource Inventory Progress

Printout/Data Display

OUTPUT DESCRIPTION: A table summerfaine by watershed the acrosse Inventoriad and that reseining to be completed (See Account).

USER(s): Hydrologist; Materiald 1,0CATION(s): W.O.; S.C.; Sdis; CO's Specialist; Planner: Manager

Entract quate the appropriate and appropriate and other planning

ACCESS LIMITATIONS: Name

ESPONSE TOTAL DESIGNATION 3 days RECOURAGE: 9

.0.6 36 Wilcompany American State of D.O.

DEPENDENCIES:

BROIL

2000-0010 codett co (100-001) cultourist and Education (100-001) codette codet

## OUTPUT DESCRIPTION Page 2 of 2

WO-45

OUTPUT TITLE:

Table of Water Resource Inventory Progress

SORT ORDER:

Identical to sequence of request parameters

ESTIMATED VOLUME:

2 per District

COMPUTATIONS/PROCESSES:

None

ACCURACY:

NA

SCALE:

NA

AMNOTATIONS:

NA

LEGEND:

NA

REMARKS:

Summary may be required for Bureauwide progress (for Washington Office)

CA

Table of Meter Resource Inventory Programs

OULD LIVE

contract (property to rededuce of Lones

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Little & Court 1 June 11 County

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PRODUKTORS:

100303

### TABLE OF WATER RESOURCE INVENTORY PROGRESS

State: (0004)(0690)

District: (0543)

Date: (2195)

State	Watershed Number/Name	Acres Inventoried	Acres Backlog
(0690)	(5304)(5416)	(Computed DE)	(Computed DE)
	TOTALS		

TABLE OF MILEY SEZONISCE THISTOLISM, SMOCKEDS

h-man	
	Sanda Vadendi

00-28

### C. Inputs

This section contains a description and a sample for each high priority input required for the Watershed Information System. It includes inputs required to produce Watershed outputs plus other resource program outputs which rely on Watershed data input.

While initial data base generation forms have been included for several data sources (SI-17, SI-18, AI-9, AI-10, WI-24, and WI-25), such sources may be accessed through linkage with the Bureau's computer rather than transfer of their data into BLM's data base.

### 25uonl

This section contains a description and a sample for the high priority input required for the metershed information factor. It includes inputs required to produce Matershed outputs plus other resource program outputs which rely on Matershed data input.

While initial data base generation forms have been included for several data sources (SI-17, SI-18, AI-9, AI-10, MI-24, and MI-25), such sources may be accessed through linkage with the Burcau's concurse rather than transfer of their data total NM's data base.

Prog. Area: Watershed-Soils

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

SI-1

## DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Soil Description Form, BLM Form 7310-9

FORM: Coded Data form

DESCRIPTION: A field form on which soil taxonomic unit data is recorded for each soil identified within an inventory area.

PREPARATION RESPONSIBILITY: BLM District Office, Resource Area Headquarters Office, or State Office Soil Scientist

FORMAT: (see attached sample input)

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring -- if updated, will not be more frequently that each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data.

ACCESS LIMITATIONS: Only Soil Scientists -- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: May be replaced by soils data form developed for Soil-Vegetation Inventory Method (see SI-9). Must be integrated with inputs SI-4, SI-5, SI-6, SI-9, and SI-12.

(REVISEDE)

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ADTINE OF ASDVIE: TO BE GERGAUIUSG

8. Ara	0 65214	ty 10. Lo	cation	(464	5)	ct	$\frac{C \neq / Y}{  11. P}$		(4681	il Map S) 1 - 40 (5 <b>3</b> 13)	2	Surname I.M.D. G	EB	(6561)	14. Parent I	
48}-	ation Name		16. Surfa						Conditions		-		1548		18. Landford	
Carey	Kipuko 104)		4655 Ston	) e = - R	ock	(4)	654)	A	Ikaline (45)	(7) Sa	line	-	ter table (		Hilly & R	elling 673
		3_	20. Asp	23) 2	11. Ele (0	431 104			resent Erosion (1667) Type Mass N		,+	(4712) SSF	_¶Q Cla	(4518)	23. Hydrolo (456	
	ipitation (in	1)12-14	1378 6417	ir & 5 S	oil	Days	1949 4949	)	27. Drainage Mod. Well (4514	Drained		Infiltration lode-ate (4516)	Mo	Percolation derate (5/7)	30 ERD (0755)	31. (AVC (45-33) -2.2 in
2.	33. THICK- NESS	34. MATE		MOIST	(4539 (468	9)	35. TEXTUR	-	6. STRUCTURE	37. CON TEN DRY M	CY		39. ROOTS	40. STONES % VOL. (4605)	41. REACTION (pH)	42. BOUNDARY
11	0-5	10 YR 2/3	2.30 2.3M				Sil	2	flufar	50 fr	70		3f & vf		6.3	cw
12	5-15	10 yR. 3/	9/3D 3M	5 YR.	4/6	D	SIL	2	m f fsbK	fi Ei	M	9	3m & q		6.4	98
32_	15-23	10 YR 37	5/3D /3M	5 YR	4/6	D	Siel	3	m f fsbk	vfi	M		2m ff		6.4	aw
	23-34		5/30 3M	5YR	4/6	D	sic	3	m s fabk	vsi	D M	4n pf	2- 5 5		7.0	cs
32cath	34-44		130	INYR.	8/2	D	1sic	3	f &mobk	fi	M	1nto4of	ansf		7. 9	cw
		10 YR. 5%	/30 3/1	IOYR.	8/2	٥	sic	1.3	f Enabk	fi	M	15			7.8	95
3-636		6	/30 3M	IOYR.	8/2	D	sicl	. 1	of FSBK Eabk	fr	M		1.45m		8.0	95
	68-79	17	/3D . IsM .				sil			54	M		1		7.8	
	79-91	10 YR 6/	1/30 3M				sil		Thin lens	es of	cen	ented b	ardnar		8.2	
1			/3D		*		sil		Weakly c						8.0	
			730				gsyl							30	7.8	
Du	118	Ba					5 (									
	(4547)						(4526)	)	(4653)	453	38)	(4555)	(4644)	(4606)	(4642)	(4686)
		back cover							1						Form 7310-9	(November 1970

May also include DEs (4598) and (4666)

Soil Inventory Area (4600)

y also include DEs (a

Prog. Area: Watershed-Soils

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

SI-4

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Engineering Properties of Soils (Estimated), Revised BLM Form

7310-22.

FORM: Coded data form

DESCRIPTION: A form on which estimated engineering properties of soil taxonomic

units are recorded for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area Headquarters, District

Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequent

than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to

history file regardless of age, and record new data.

ACCESS LIMITATIONS: Only soil scientists -- location to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

Must be integrated with inputs SI-1, SI-5, SI-6, SI-9, and SI-12.

REMARKS: WS-100

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## DATA SOURCE DESCRIPTION ATMOS

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DENT COURT STEEL IN

olo a Longitate 632 . Then

NAME WAS ASSOCIATED TO BE WELLEN,

NOTINE OF TEDYZE: 10.95 GC COSTULING

County: (0546)
State: (0004) (0690)
District: (0543)
TABLEGII Inventory Area: (4600) ENGINEERING PROPERTIES OF SOILS (Estimated)

Soil Series Symbol	(4148)	(4547) Depth From Surface (inches)	(45 kg) Depth to Bedrock (1nches) (4546) 12-20	(4562) Hydro- logic Group	Swell	Uncoated Steel	Concrete	USDA Texture (代表を)	IFICATION Unified 만호하 GC or CL		(4605) Coarse Fragments >3" (percent) 4606 30-60	Liquid Limit (percent) (2571) 35-40	Plasticity Index 4564 15-20
			13.13		<-			clay loam		-			->
370	Unnamed	0-60	40+	В	Moderate	Moderate	Moderate	Gravelly clay loam	CL	A-6	0-40	25-35,	15-20
371	Unnamed	0- 9	20-40	В	Low	Moderate	Moderate	Loam	ML or CL-ML	A-4 or A-6	0	25-35	5-10
		9-34		- ·	Low	High	Moderate	Very gravelly loam	GM	A-2	0-20	25-35	5-10
372	Unnamed	0-18	12-20	D	Low	Moderate	Moderate	Very gravelly loam	GM	A-4 or A-2	0-20	20-30	5-10
380	Pollard .	0- 9	40+ .	C	Low	Moderate	Low	Loam or clay loam	ML or CL	A-6	0-15	35-40	10-15
		9-50			Moderate	High	Moderate	Clay ·	ML or MH	A-7-5	0	45-55	15-20
381	Unnamed	0-14	20-40	C	Low	Moderate	Low	Gravelly loam or gravelly clay loam	ML or GM	A-4 or A-6	0	25-40	5-15
		14-34			Moderate	High	Moderate	Gravelly clay or gravelly clay loam	CL or ML	A-6, A-7-5	0-20	35-50	15-25
382	Unnamed	0-11	40+	C	Low	Moderate	Low	Gravelly clay loam	GM	A-4 or A-6	0-10	25-40	5-15
	3	11-74			Moderate	High	Moderate	Very gravelly clay or very gravelly silty clay	GC or CL	A-7-5	0-20	45-55	15-20
701	Unnamed	0- 8	12-20	D	Low	Low .	Low	Gravelly loam	SM	A-4, A-2	0-20	20-30	NP- 5
		8-13			Low	Low	Low	Very gravelly loam	GM or CL	A-4 or A-6	0-20	20-30	5-10
704	Carney	0-30	20-40	D.	High	High	Low	Clay .	СН	A-7-6	0-30	60-75	35-45
705	Unnamed	0- 7	20-40	С	Low	Low	Low	Cobbly clay loam	ML or CL	A-4	0-35	30-35	5-10
•		7-31			Moderate	Moderate	Low	Very cobbly clay	CG	A-6, A-7-5	30-60	35-50	15-25
706	Medco	0-13	20-40	מ	Moderate	Moderate	Low	Loam or clay loam	ML, SM or GM	A-6 or A-4	0-40	3040	5-15
		13-27			High	High	Low	Clay	СН	A-7	0-20	60-80	35-50
710	Coker	0-70	40+	D	High	High	Low	Clay	СН	A-7 .	0- 5	60-75	35-45
712	Jumpoff	0- 5	40+	C	Moderate	Low	Low	Gravelly clay loam	CL-ML, ML	A-4	0	25-35	5-10

	7-00		20 02 2-8	5								
							£7.	the Allower for	Lety Standilly part		THE PERSONS	
								13476662				
								BYASSAN				
										District of the last		

Prog. Area: Watershed-Soils

Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

SI-5

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Forest Management Interpretations, Revised BLM Form 7310-24

FORM: Coded data form

DESCRIPTION: A form on which forest management interpretive data for soil taxonomic units are recorded for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--If updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

Must be integrated with inputs SI-1, SI-4, SI-6, SI-9, and SI-12. **REMARKS:** 

WS-102

Soil		Type Cle	Productivity Sigite Index	Regeneration	
Series Symbol	Soil Name			Hazard	
(4683)	4648)	The state of the s	e and Class2/	(Bare Root) (4559/4550)	Remarks
7 36	Witzel	(5.767)	(5751) (5250)		Nonforest soils.
1/ 370/n	Unnamed, northerly aspect	Douglas-fir A	150-111 (4)	Slight	Soils with higher site index receive seepage water.
1/ 370	Unnamed, southerly aspect	Douglas-fir A	130-111 (1)	Moderate	Windthrow is a hazard in the Low Divide area.  Soils with higher site index receive seepage water.  Windthrow is a hazard in the Low Divide area.
$\frac{1}{1}$ / 371/n $\frac{1}{371}$	Unnamed, northerly aspect	Douglas-fir A	115-IV (3)	Moderate	
	. Unnamed, southerly aspect	Douglas-fir A	115-IV (3)	Severe	
$\frac{1}{1}$ / $\frac{372}{372}$	Unnamed, northerly aspect	Douglas-fir A	100-V (3)	Severe	
±/ 372	Unnamed, southerly aspect	Douglas-fir A	80-V (1)	Severe	
$\frac{1}{1}$ / 380/n $\frac{1}{380}$	Pollard, northerly aspect	Douglas-fir · A	III	Slight	
1/ 380	Pollard, southerly aspect		145-111 (3)	Moderate	Site class is lower near zones of low precipitation.
$\frac{1}{1}$ / $\frac{381}{381}$	Unnamed, northerly aspect	Douglas-fir A	130-111 (1)	Moderate	30 3 00
1/ 381	Unnamed, southerly aspect		125-IV (2)	Severe	
1/ 382/n 382	Unnamed, northerly aspect	Douglas-fir A	120-IV	Moderate	City of the city o
1/ 382	Unnamed, southerly aspect		115-IV (5)	Moderate	Site class data are from forest inventory records.
701/n	Unnamed, northerly aspect	Douglas-fir R	80-V	Severe	Standard transfer and
		Ponderosa pine C	80-V	Severe	Site class data are from SCS records. Site class data are from SCS records.
701	Unnamed, southerly aspect				Nonforest soils.
704	Carney				Nonforest sotls.
705/n	Unnamed, northerly aspect	Douglas-fir B	85-V	Severe	Site class data are from SCS records.
705	Unnamed, southerly aspect				Nonforest soils.
706/n	Medco, northerly aspect	Douglas-fir A	90-V (1)		Site class data are from SCS records.
706	Medco, southerly aspect	~~			Nonforest soils.
710	Coker			8	Nonforest soils.
712/n	Jumpoff, northerly aspect	Douglas-fir A	105-IV	Severe	Site class data are from forest inventory records.
712	Jumpoff, southerly aspect	Douglas-fir A	105-IV 90-V	Severe	Site class data are from forest inventory records.
715	Brader	90.00		3	Nonforest soils.
716	Debenger	* our has		2	Nonforest soils.
718/n	Beekman, northerly aspect	Douglas-fir A 110	to 90-IV to V	Severe	Site class data are from SCS records. Productivity is
718	Beekman, southerly aspect	Douglas-fir A			higher at elevations above 3000 feet.
720	because, southerry aspect	bougras-iir H	95-V	Severe	Site class data are from forest inventory records.
		. 3			

Forest Site

State: (0690) (@004)

District: (0543)

Soil Inventory Area: (4600)

<sup>1/</sup> Soils with measured data.

<sup>2/</sup> From tables in Field Instructions for Integrated Forest Survey and Timber Management Inventories in Western Oregon, 1968. 21M, Portland, Oregon. The number in parentheses show number of plots examined with 3 to 5 trees per plot.

692 (000) (400) (400)

Colonia Carlo Colonia Colonia Colonia				per the contract	A STATE OF THE PARTY OF THE PAR	48	Considerate Fire Index Constitution						The second secon		
				• 1 1.											
										m:8200	113 - 113 -	2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		E less Land	
Lance ( L'entence , mandeur	gasherout beacherally unborg		the L Manuage . House		Lange Colombian Co.		East to the last t	Cooper Tiber Advis	Control Electrons all and						

Prog. Area: <u>Watershed-Soils</u>

Prep. By: G. Lipscomb Date: 22 June 78

(Revision)

SI-6

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Range Management Interpretations, Revised BLM Form 7310-25

FORM: Coded data form

DESCRIPTION: A form on which range management interpretive data for soil taxonomic units are recorded for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office or State Office

FORMAT: see attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

Must be integrated with inputs SI-1, SI-4, SI-5, SI-9, and SI-12.

REMARKS:

WS-104

State: (0690) (0004) District: (0543)

Soil Inventory Area: (4600)

-		DISTITUTE. (	J343 J				
Soil		Vegetation			Productive Capacity	Normal Growing	Normal Grazing
Symbo1	Soil Name	Sub-Type	Key Species and Per	cent Cover	Potential	Season	Season
(4683)	(4648)	(2706)	(2631)	(3824)	(4534)	(0997) (0998)	(3845)
* 36/n	Witzel, northerly aspect	48- 2	H	# <u>1</u>	19		
* 36	Witzel, southerly aspect			4 ==	85 -1 8		
*370	Unnamed	28 8- 3		8 2	AS 8	===	
*371	Unnamed	32 3		32		32	
*372	Unnamed	- E -	1 - 1		88 8	25	
*380	Pollard	35	= =	2	3 E		* <b></b>
*381	Unnamed	- 13 3			- 3	3.0	'
*382*	Unnamed				5 - E	10-2	
*701/n	Unnamed, northerly aspect	18			- E		
*701	Unnamed, southerly aspect	- 22		2	- 3		
704	Carney, southerly aspect	Oak - Pine - Oatgrass	White oak Ponderosa pine California oatgrass Idaho fescue	35-50 5-15 50-65 1- 5	2-3	2/15-7/1	
706	Medco, southerly aspect	Oak - Pine - Fescue	White oak Ponderosa pine Idaho fescue	50-70 Trace -3 35-45	2-5	2/15-6/15	8I-6

<sup>\*</sup> These soils are not now used for grazing, or information is not available.

		gamere.						
								A SARANA
seach Possing about	TOTAL VINERAL AND	Unmand, northerly espec.			District	College Colleg	Server Constitute of the server	

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 June 78
(Revised)

SI-9

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: SVIM Soil Description Field Data Form, S-1.

FORM: Coded data form

DESCRIPTION: A form used in the Soil-Vegetation Inventory Method for recording soil taxonomic unit data for the soils of an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area Headquarters,
District Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period. Do not retain historical data.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move all data to history file regardless of age, and record new data.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: May be revised during development of Manual 1731. May replace BLM form 7310-9 (see SI-1). Must be integrated with inputs SI-1, SI-4, SI-5, SI-6, SI-9, and SI-12.

Prop. SV: S. Lincond.

DATA SOURCE DESCRIPTIONNEEL

CPAL.

SYTH SOIT Description Field Data Form, S-1.

mos etch belief !!

DESCRIPTION: A form used in the Soil-Vernitties inventory Nathor for the soils of an inventory area.

PRETERATION RESPONSIBILITY: Soil Scientist at Resource Area Designer Levy.

FORMAT: See attached samule input

DATA ENTRY PROCEDURE: To be determined

Encourage of UPDATE: May not Ed recurring and record to the fact of the party than the party of the party than the party of the party than the party of the party

MOLUME OF UPDATE: To be determined

Angeleulus espuissistis; Moss likely will not Ed and to 17 10, nove all

Access LIMITATIONS: Only Soil Scientists -- locations to be determined

SPECIAL EDITAMINITARILIDATION REQUIREMENTS: To Fill developed

REMARKS: - New be revised during Mayelopment of Manuel 1751. Nov replace
But room 7510-0 (see SI-1). Must be integrated with inputs SI-1. SI-4.

## BUREAU OF LAND MANAGEMENT STANDARD UNIT RECORD FOR

SVIM SOIL DESCRIPTION
FIELD DATA FORM

RECORD TYPE
STATE (0 690)-(0004)
DISTRICT (0543)
PLANNING UNIT (1675)
SOIL NUMBER (4683)
SOIL STATUS (4690)
ACTION (A=ADD, D=DELETE)

700		為是問題
	S	L
		例為
***		
		OF A

Soil Type (46	48)	3.75	Date	(6630)	Collector (6561)
Classification (46			90	And Market Co.	
Location (46)					MON (HI 15 (HI 20)
	05) -43)			Climate(	0694) (4665) (4638)
THE PARTY OF THE P	132)		tare to 1746.	4-320	
A LOUIS CONTRACTOR OF THE STATE OF	I STATE OF THE PARTY OF THE PAR	(4514)	<b>* 海海</b> 普尔	Salt or	Ikali (4567)
Elevation (D43)	Charles de Carro Carro Actor Manager	(4693)		Stonines	(4655)
Slope (3874)	Moisture	(4688)			A TAMES OF A
Aspect (6523)	Root Distirb.	(0757)	1753111	% Clay*	4605 / 4606/531
Erosion (4692)	Z Coars	4605) (4606 e Fragments*	,	7 Coaser	than V.F.S.* 4605/4
Permeability (45/1)					
	ioe sa tr		*Consist	trol section	on average
Horizon Depth Dry	Tex Moise	iture Struc-	Des Mala	Reac Wet Flor	Bound -
					Ruors Forms Dill
(4547) (4547) (4545)			675	91 440	(4686) (46-44) (46-37) (46-9
		a Figure 1			
Additional notes (64)5					

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 June 78
(revision)

SI-12

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCF)

TITLE/DESIGNATION: Soil Interpretations Record (SCS-SOILS-5, Modified for BLM Use).

FORM: Coded data form.

DESCRIPTION: A form for recording interpretive data for soil taxonomic units within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

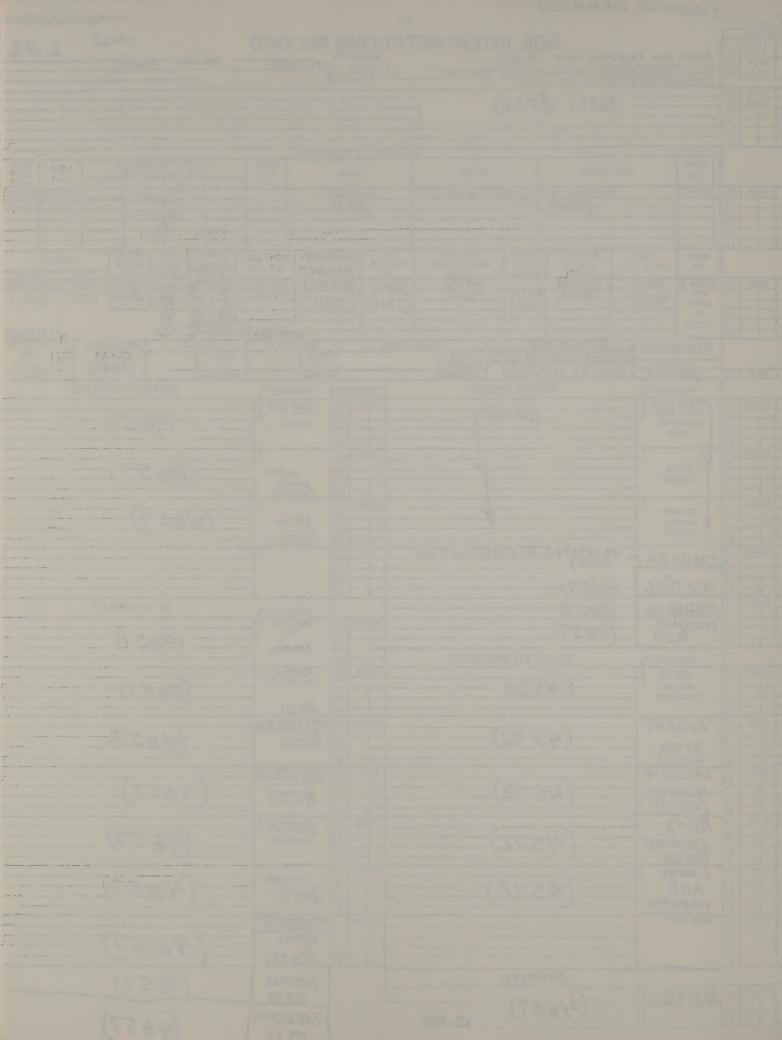
VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists -- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: Must be integrated with inputs SI-1, SI-4, SI-5, SI-6, and SI-9.



Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

SI-13

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Soil Inventory Field Map.

FORM: Field map.

DESCRIPTION: A map at 7-1/2 or 15 minute quad scale containing boundaries of soil mapping units and a legend with names for each soil unit within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input. Legend would consist only of mapping unit symbol and mapping unit name--description would be too lengthy for display on map.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists -- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

Free Area Materins-Sofia

DATA STURDE DESCRIPTION

21-13

TITLE DESIGNATION: Soil Inventory Field May

FORM: FILTE map.

DESCRIPTIONS A day at 7-1/2 or is minute out case containing boundaries of seri maying units and a Tegend with names for each soil unit within an

we me and the constitution of the sound are the country on the constitution in the constitution of the con

formit 'see attached sample input. Legent would consist only of mapping unit symmet end mapping unit nace-description would be too longing for display

DAYS EMTRY PROCEDURE: To be determined.

PREQUENCY OF UPDATE: May not require updating-if updated will not be note frequently than each 20-year period.

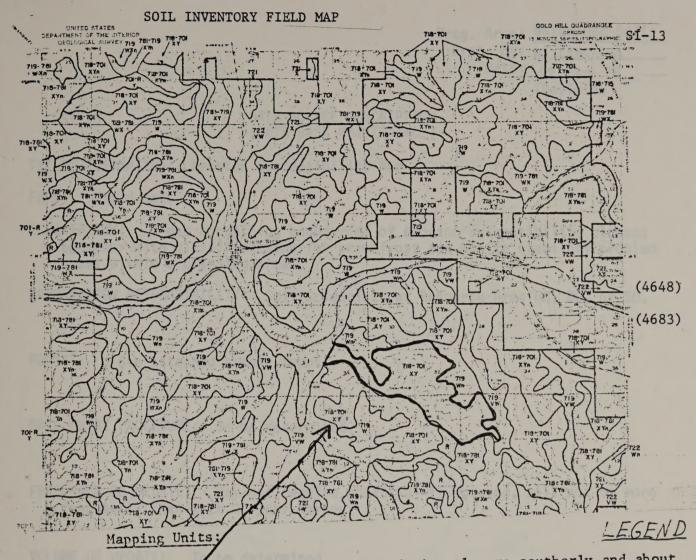
VOLUME OF UPDATES. TO BE determined.

ARCHIVIER REGULARMENTS: Meat Meat Meat hat he worldwin-11 updated; cover old data to history file recordings of age, and record new data. Retorn historn

Actes III This louse Only Soll Selentists-locations to be determined later.

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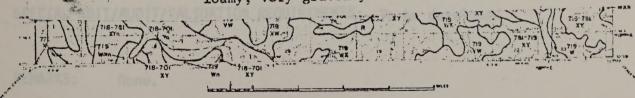
REWEST None.



55,360 acres. Slopes dominantly are southerly and about 70 percent have gradients of 35 to 60 percent and 30 percent have gradients of 60 to 85+ percent. This unit concent have gradients of moderately deep, very gravelly,

tains about 75 percent of moderately deep, very gravelly, loamy (718) Beekman soils and 25 percent of shallow 701 soils. The 701 soils occupy the steeper slopes and ridges.

Inclusions of moderately deep, fine-loamy (781) Colestine soils are mixed with the (718) Beekman soils; and of (R) rock land and unclassified, dark colored, very gravelly, loamy, shallow soils are mixed with the 701 soils. Adjacent to the more moist areas, these soils merge with the loamy, very gravelly soils of the 370, 371 and 372 series.



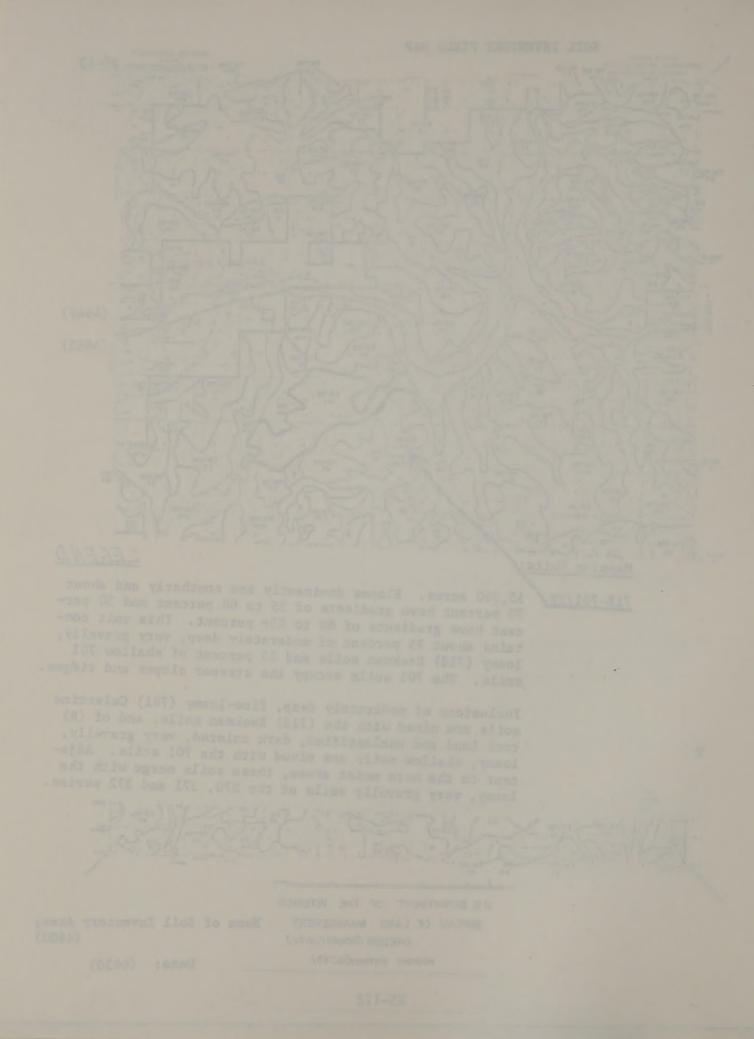
U.S. DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT OREGON (0004) (0690)

MEDFORD DISTRICT (0543)

Name of Soil Inventory Area; (4600)

Date: (6630)



Prog. Area: Watershed-Soils

Prep. By: G\_lipscomb\_

Date: 22 June 78

(Revision)

SI-15

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Erosion Susceptibility Map

FORM: Field map.

DESCRIPTION: A map containing boundaries of erosion susceptibility classes together with classifications for permafrost and mantle stability problem areas within a planning area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists -- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

21-12

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FORTS Figld comp.

OESCRIFTION: A map containing boundaries of otosion susceptibility classes together which classifications for performance and mentle stability problem areas within a planelne area.

PREPARATION RESPONSIBILITY: Soil Scientists IN Resource Area MG, DG, or SG.

FULLAT: See attached sample input

DATA ENTRY PROCESULE: To to deterrined.

FREQUENCY OF UPGATE: For you require month world wook od, with not be more frequently than each of rear ponted.

ARCHIVING AFGUIAGNENTS: Frest libely will at Ed updated and updated, move all data to matory file reparaless of age, and record any data. Retain a historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Schoolsts .- Junetions to be determined later.

SPECIAL EDITYANDIT/VALITATION REQUIREMENTS: To be developed.

REMARKS: None

STATE (0004)(0690) DATE (2302) (2306) DISTRICT (0543) P.U. (1075) LEGEND 1 - Slight erosion susceptibility
2 - Moderate erosion susceptibility
3 - Severe erosion susceptibility
P - Permafrost area
M - Mantle stability problem area Boundary of Planning Unit (4515)

(2528)

Aglify coocens to locate

gati idizqaasua poleona enevad - 1

P - Permafront area

North Stability problem area

Prog. Area: Watershed-Soils

Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

SI-16

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION:

Fragile Area Map

FORM: Field map.

DESCRIPTION: A map containing boundaries of identified fragile areas (with legend) for a planning area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

31-16

TITLE DESIGNATIONS . From The Area Marie

Dan Black CHROS

DESCRIPTION: A rap concentrate boundaries of itentified freeling areas (a)th

PREPARATION RESCONSIBILITY: Soil Scientist at Resource Area NO. DO. on RO.

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FREQUENCY OF UPDATE: May not require updiffered; modated, will not or more to concently than each 20-year perfod,

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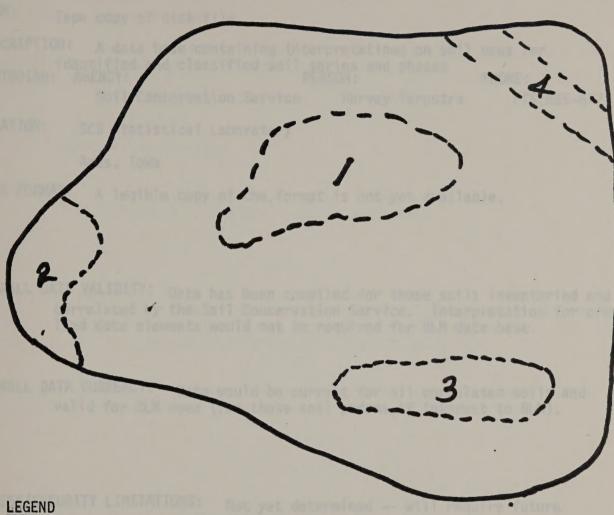
ACCESS LIMITATIONS: Only Soil Referrists -- locations to be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS To be developed

DOWNERS NOON

## FRAGILE AREA MAP

STATE (0004) (0690) (2302) (2306) DATE DISTRICT (0543)



P.U.

(1075)

- 1 Landslide hazard area in Tyee sandstone
  2 Shallow soil area
  3 Steep south exposure
  4 Fault zone (4681)

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A - Feul's zonn

Prog. Area: <u>Watershed - Soils</u>

Prep. By: H. Lipscomb
Date: 22 June 78
(Revision)

SI-17

DATA SOURCE DESCRIPTION (INITIAL DATA BASE GENERATION)

TITLE OF SOURCE: Soil Interpretations Record, SCS

FORM: Tape copy of disk file

DESCRIPTION: A data base containing interpretations on soil uses for

identified and classified soil series and phases CUSTODIAN: AGENCY: PERSON:

AGENCY: PERSON: PHONE:
Soil Conservation Service Harvey Terpstra FTS 865-8177

LOCATION: SCS Statistical Laboratory

Ames, Iowa

DATA FORMAT: A legible copy of the format is not yet available.

OVERALL DATA VALIDITY: Data has been compiled for those soils inventoried and correlated by the Soil Conservation Service. Interpretation for cropland data elements would not be required for BLM data base.

OVERALL DATA CURRENCY: Data would be current for all correlated soils and valid for BLM need (for those soil pedons of interest to BLM).

ACCESS/SECURITY LIMITATIONS: Not yet determined -- will require future contacts with SCS.

ESTIMATED VOLUME: Unknown at present time -- will require followup with SCS.

REMARKS: None

\_ State \_ Stat

DATA SCURE DESCRIPTION

Title OF SOURCE: Set Interpretations Second, 505

and the second of the second

Soil Conservation Service Horray Tempetro FTS 055-9177

LOCATION: SCS Statistical Laboratory

Ames, Iowa

CATA FORMAT: . A legible copy of the format is not yet available.

OVERALL DATA VALIDITY: Data has been compiled for those solls inventorised and compiled to the compiled to the compiled for BLM data base.

OVERALL DATA CURSENCY: Data would be current for all correlated soils and

ACCESSIBLEY LIMITATIONS: Not yot determined -- will require Future occasions with SCS.

ESTIMATED VELLUE: Universit at process the -- all require following with sel

SHOW STANSE

Prog. Area: Watershed - Soils

Prep. By: G. Lipscomb \_ Date: 22 June 78

(Revision)

# DATA SOURCE DESCRIPTION (INITIAL DATA BASE GENERATION)

SI-18

TITLE OF SOURCE: Pedon Data System, SCS

FORM: Tape copy of disk file

DESCRIPTION: Consists of a description for each horizon of a soil pedon, soil

laboratory data, and engineering data.

CUSTODIAN: AGENCY: PERSON:

PHONE:

Soil Conservation Service

Clayton Miller 202-447-7705

LOCATION:

Hyattsville, Maryland

DATA FORMAT:

Unknown at this time -- to be determined.

OVERALL DATA VALIDITY:

Data has been compiled for those soils inventoried and correlated by the Soil Conservation Service. All data for pedons of interest to BLM would be valid.

OVERALL DATA CURRENCY: Data would be current for all correlated soil pedons and valid for BLM needs (for those pedons of interest to BLM).

ACCESS/SECURITY LIMITATIONS:

Not yet determined -- will require future contacts with the SCS.

ESTIMATED VOLUME: Unknown at the present time -- will require followup with SCS.

**REMARKS:** 

None

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87-12

Pedon Data Systems, 503

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Soil Conservation Service

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OVERFUL DATA CHREENCY: Data would be current for all correlated soll padons and valid on BLM needs from those persons of interest to BLM)

RESSOLSECURITY LIMITATIONS:
Not yet determined -- 411 require Future

estructed variables Unificoun'st the present time -- will require Fellowin with SCS.

SI-19

Prog. Area: \_ Watershed-Soils G. Lipscomb Prep. By: Date: 22 June 78

(Revision)

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION:

Soil Inventory Narrative

FORM:

Narrative

DESCRIPTION:

An inventory narrative which describes the attributes of soil mapping units, taxonomic units, and associations.

PREPARATION RESPONSIBILITY:

Soil Scientist at RAH or DO

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

May not be recurring--if updated,, will not be more frequently than each 20 year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS:

Most likely will not require updating -- if so, discard old narrative and record new.

ACCESS LIMITATIONS:

Only soil scientists may input -- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS:

To be developed

**REMARKS:** 

None

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SEPERATION RESPONSED UTTY:

Soft Scientist at RAN or DO

See attached sample input

DATA ENTRY PROCEDURE:

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VOLUME OF UPDATE:

discard old marrative and record new.

Only soil scientists may input--- locations to be determined later.

WEELL EDITIONALIDATION REQUIREMENTS;

To be developed

400

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## SOIL INVENTORY NARRATIVE

State: {0690} (0004) District: {0543}

Date: (2302) (2306)

Name, Soil Inventory Area: {4600}

### Mapping Units:

806-R/VW 1.840 acres. Slopes dominantly are southerly and about cent of the area has gradients of 0 to 10 percent and 30 percent has gradients of 10 to 35 percent. This unit contains about 80 percent of the shallow 806 soils and 20 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils and what poorly-drained unclassified soils in drainageways.

806-R/X 1.730 acres. Slopes dominantly are southerly and have gradients of 35 to 60 percent. This unit contains about 75 percent of shallow 806 soils and 25 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils-(4549), (4550), (4566), (4646), (4668) PENTE

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format format todal

lone, Zoil Inventory Area: (4600)

TESSINU DATEONS

AGE-FAUL 1.802 ocres. Stones domantity are southerly and about 30 cent of the area has gradients of C to IL percent and 30 cent has gradients of 10 to 35 percent. This unit commands about 80 percent of the shallow AUL solls and 20 percent of CR1 rock land.

Inclusions consist of the appearstly deen 80% soils and

1.750 acres. Single dominantly are southerly and heve gradients of 3% to e0 queent. This unit contains about 75 percent of shallow allow acres and 25 percent of 4RJ rock land:

Inclusions consist of the moderately deep 609 soils.

Prog. Area: \_

Watershed-Soils

G. Lipscomb

(Revision)

SI-20

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION:

Erosion Susceptibility Narrative

FORM: Narrative

DESCRIPTION: A URA Step 2 narrative describing the erosion susceptibility of

the soils within a planning area

PREPARATION RESPONSIBILITY:

Soil Scientist or Planner at RAH or DO.

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

May not require updating-- if updated, will not be more frequently than each 20-year period

frequently than each 20-year period.

VOLUME OF UPDATE:

To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated-- if updated,

discard old data and record new.

ACCESS LIMITATIONS: Only soil scientists may input-- locations to be

determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

51-20

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FORM: severestum

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Soft Scientific or Planner at RAH or BD.

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VOLUME OF UPDATE:

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ARCHIVING REQUIREMENTS: . Most likely will not FR us account of data end record new

ACCESS LIMITATIONS: ONLY SOLL

Only soil schembists may input-- locations to redetermined later.

PECIAL EDGT/AUDIT/WALIDATION REQUIREMENTS: To be-developed

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#### EROSION SUSCEPTIBILITY NARRATIVE

C+++\*\* (0000) 101801

	District: {0543}		Date: (2302)	(2300)
	Planning Unit:	(1075)		
	Erosion Susceptibility (4679)	is		• • • •
	Y OF UPDATE: May not be returned y then each 20-year period.		odsted, will not be	a more
•	Permafrost is found	:::::		• •
		y will not be	vodated 1f upd	sted.
	Mantle stability problem (4679)	s consist	of	• •

TROSTON SUSCEPTIBILITY WARRATIVE

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Prog. Area: Prep. By:

Watershed-Soils G. Lipscomb

Date:

22 June 78

(Revision)

SI-21

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Fragile Area Narrative

FORM: Narrative

DESCRIPTION: A URA Step 2 narrative describing fragile areas for a planning

area.

PREPARATION RESPONSIBILITY: Soil Scientist at RAHs, DOs, and SOs.

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE:

May not be recurring - if updated, will not be more frequently than each 20-year period.

**VOLUME OF UPDATE:** 

To be determined.

ARCHIVING REQUIREMENTS:

Most likely will not be updated-- if updated, discard old data and record new.

ACCESS LIMITATIONS:

Only soil scientists may input--

locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

**REMARKS:** 

None

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CATA SOURCE DESCRIPTION OF STANK

TITUE/DESIGNATION: Frantis Ares namedy

FORM: Narraciwe

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PREMARTION RESPONSIBILITY: Soll Schennist at PANS, DOS. and SOc.

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DATA DATAY PROCESURE: To be decumined.

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VOLUME OF UPDATE.

To III determined.

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ENARKS ()

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FRAGILE AREA NARRATIVE

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(1880) (1881)

The shallow soils on the unstance of

(4680) (6881)

Prog. Area: <u>Watershed-V/C</u> Prep. By: <u>G. Lipscomb</u>

Date: 22 June 78

VI-1

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

(Revision)

TITLE/DESIGNATION:

Watershed Conservation and Development Field Data;

BLM Form 7330-12

FORM: Coded Data Form

DESCRIPTION: A form for recording watershed area, vegetal subtype, and transect data in the WC&D inventory.

PREPARATION RESPONSIBILITY: Watershed Specialist at Resource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: No update expected for this input form (see remarks)

VOLUME OF UPDATE: None

ARCHIVING REQUIREMENTS: Upon updating with VI- 2 (SVIM Inventory), move old data to history file regardless of age. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: See current ADP Programs M062, M063 M0 64 and M065.

REMARKS: This input form is used in current ADP System 0008, WC&D, for recording watershed area, vegetal subtype, and transect data. Updating is expected to come from the Soil-Vegetation Inventory Method, V-1, SVIM Transect Data Form.

Prop. St. St. State 78

2-17

ONTA SOLICE DESCRIPTION OF STREET

TITLE DESIGNATION: Natural Description and Description Court Date:

FORCE COARD DATE Form

DESCRIPTION: A form for recording were and area, vegetal subtype, and transact data in the MCGG inventory.

PREPARATION RESPONSIBILITY: Watershed Specialist at Resource Area Headquarters or District Office

Format planes bedeeves set :78400

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FALMULENCE OF HEADER; No update expected for this same form (see remarks)

VOLUME OF BEDATE: None

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ACCESS LIMITATIONS: To be determined

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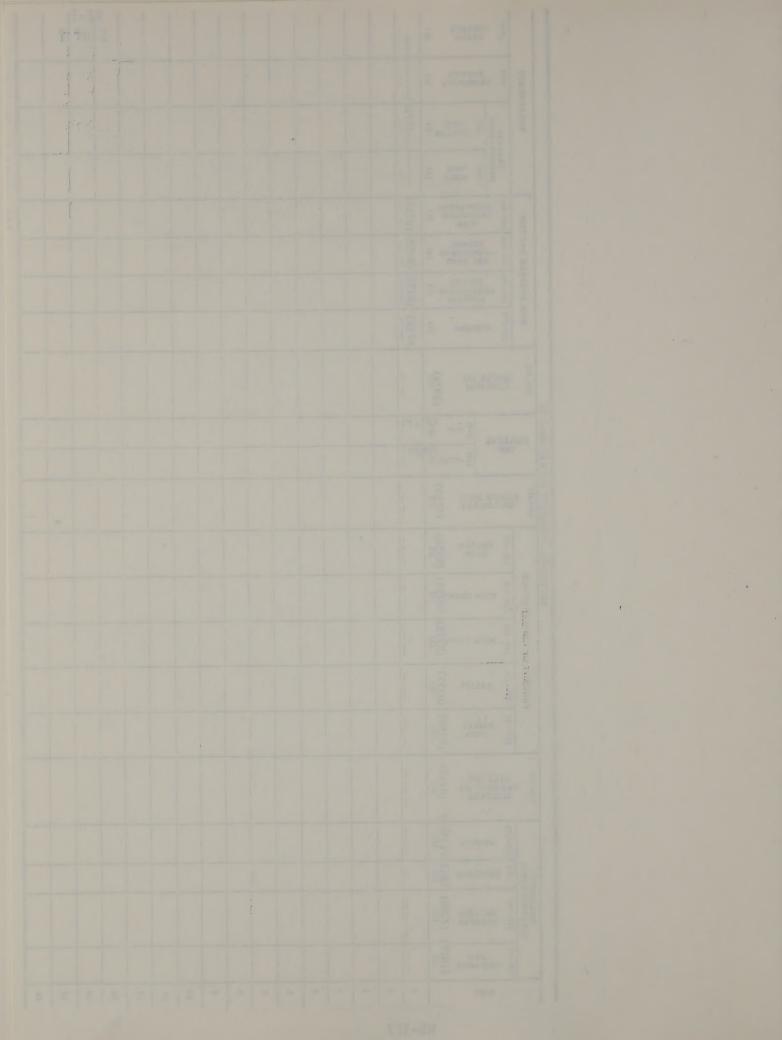
REMARKS: This inite form is used in current ADF System 0008, NCAD, for recursing webserhed area, veneral sublyce, and transact date. Updating is expected to come from the soft-Veneration Inventory Mathematical Value Comm

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sheet 7	of	2	
T T	OL.	2	

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(054	46) .	(530	(13-14) 5304) (6520) (0693)								
. Ann	ual precipit (0694)	ation (inc	hes) (41-43)	10. Month of		(44–45)	11. Da (6630	te of surve	ey (mont	b and ye	ar)
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Prog. Area: Watershed-V/C

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

VI-5 ,

#### DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Land Treatments and Management Facilities Map

FORM: A field map with legend

DESCRIPTION: An overlay for a base map showing locations of land treatment and management facility projects for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Watershed Specialist, Planner or Range Specialist at Resource Area Headquarters or District Office.

See attached sample input. FORMAT:

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new and discard old data

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: This input is a current requirement of Step 2, URA. The best part of the cont of t

ON THE PROPERTY OF STATE ATAM

TITLE/DESIGNATIONS Land Treatments and Management Fact I (1) or Hope

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PREPARATION RESPONSIBILITY: Walenshed Specialist; Planner or Range Specialist at Resource Area Headquarters or District Office.

FORMAT: See attached sample impur.

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ARCHIVING REQUIREMENTS: Unor upcase, replace old deca with new and discard

ACCESS LIMITATIONS: To be date rained.

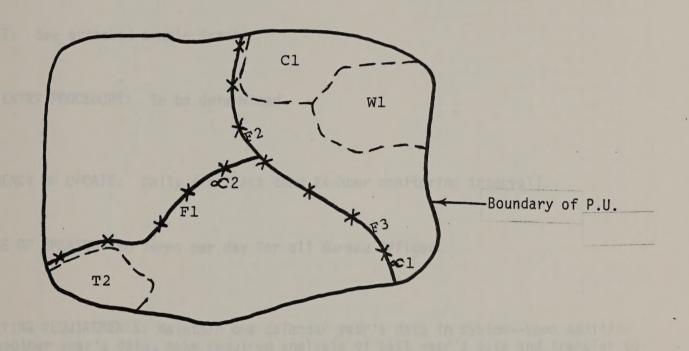
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### LAND TREATMENTS AND MANAGEMENT FACILITIES OVERLAY

State (0004/0690) District (0543) P.U. (1075)

Date (2302) (2306)



#### LEGEND:

- F1 Allotment A Boundary Fence
- F2 Allotment B Boundary Fence
- (5464) F3 Allotment C Boundary Fence
  - C1 Chemical Sagebrush Manipulation
  - T2 Mechanical P-J Manipulation by Chaining
  - W1 Contour Furrowing in burned sagebrush
  - ←1 Comparison Area for Big Sagebrush Site
  - 2 Comparison Area for P-J Site

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ACT - Comparting Area Sur F-1 Street

AI-2

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: HOURLY AIR QUALITY DATA FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording less than 24-hour air quality data at a monitoring

site.

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at

District Office or State Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

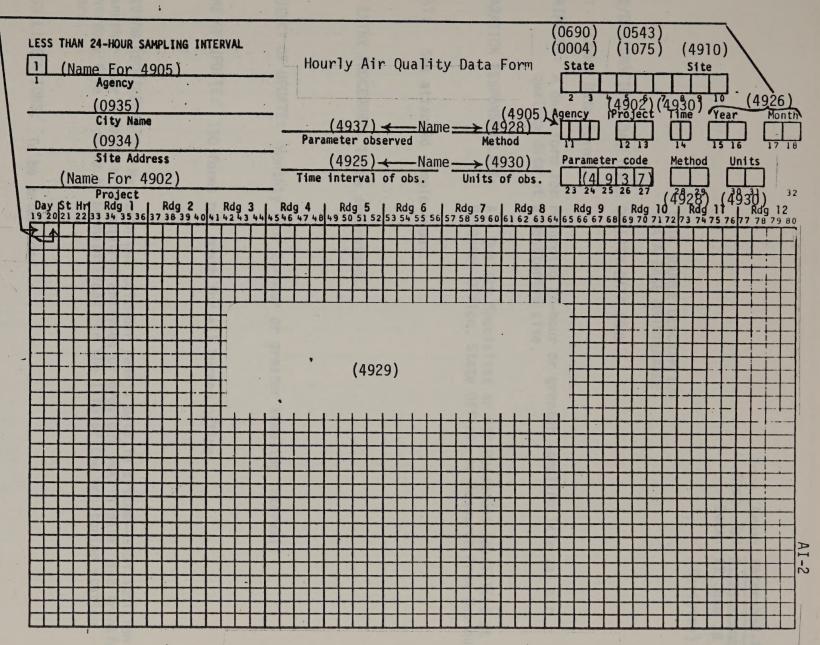
FREQUENCY OF UPDATE: Daily (for less than 24-hour monitoring interval).

VOLUME OF UPDATE: 50 forms per day for all Bureau Offices.

ARCHIVING REQUIREMENTS: Maintain one calendar year's data in system--upon addition of another year's data, make required analysis of past year's data and transfer to history file which is to be maintained for the life of the monitoring station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.



Hourly Air Quality Data Form. (modified for BLM use)

Prog. Area: Watershed-Air

Prep. By: G. Linscomb Date: 22 June 78

(Revision)

AI-3

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: DAILY AIR QUALITY DATA FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording 24-hour or greater sampling interval air

quality data at a monitoring site.

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at

District Office, State Office, or Resource Area Headquarters.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Monthly (for 24-hour or greater sampling interval)

VOLUME OF UPDATE: 150 forms per month for all Bureau offices

ARCHIVING REQUIREMENTS: Maintain one calendar year's data in system--upon addition of another year's data, make required analyses of previous year's data. and transfer to history file which is to be maintained for the life of the monitoring station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

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TITLEMELLENG TO VERTE WE SEEN FORM FORM

FORMS Coded Onto Form

DESCRIPTION: A data form for measuring 28-hour or greater sampling interval arm

PREARANTATION RESERVED LITTLE ATT QUALITY Scecialist or Air Burunces Specialist of Ice, Scale Office, Scale Office

FORMAT: Sep accident sample input.

DATA ENTRY PROCESURE: 10 bg desembles

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ACCESS LIMITATIONS: To be determined

SPECIAL EDITION REGULARISTEE TO be developed

REPARKS: Now

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#### Daily Air Quality Data

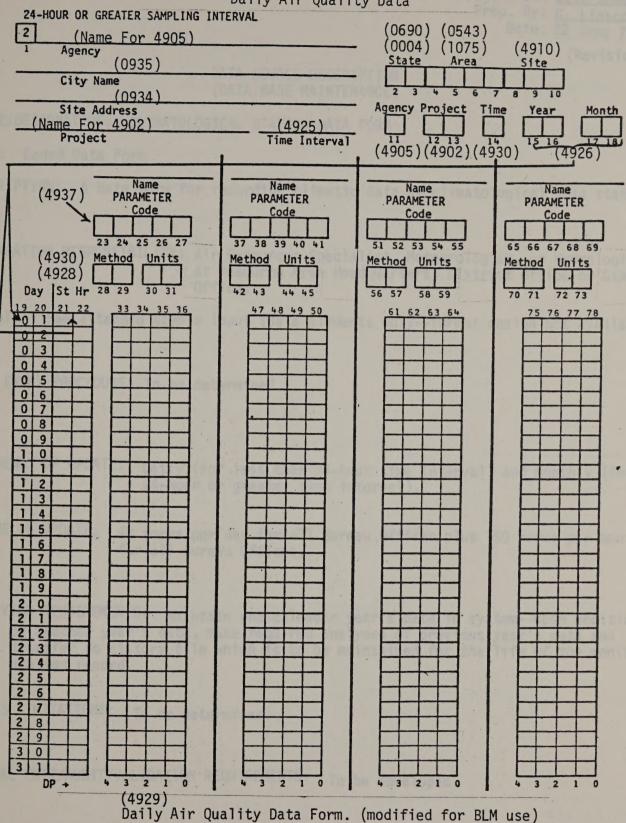


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Prog. Area: Watershed-Air Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

AI-4

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: CLIMATOLOGICAL STATION DATA FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording climatic data at climatological data stations.

PREPARATION RESPONSIBILITY: Air Resources Specialist, Meteorologist, or Hydrologist

at Resource Area Headquarters, District Office or State

Office.

FORMAT: See attached sample input (data elements only--format design not available).

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Daily (for less than 24-hour time interval) and Monthly (for

24-hour or greater time interval).

VOLUME OF UPDATE: 50 forms per day for all Bureau Offices plus 150 forms per month

for all Bureau Offices.

ARCHIVING REQUIREMENTS: Maintain one calendar year's data in system--upon addition of another year's data, make required analyses of previous year's data and transfer to history file which is to be maintained for the life of the monitoring station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

WS-134

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DATA SOURCE PERCHASEN

2-14

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FORM: Codes Data Form

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PREPARATION RESPONDED THE PASCUNCE SPACE VISION RELOCATED OF STATE OF SCALE

FURNAT: . See attached sample facus (data elements only -- formet design not available).

DATA CHTRY PROCEDURE: To be determined.

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ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/ANDIT/MALIENTION REQUESTED: To be down lond

REMARKS: Nov

#### CLIMATOLOGICAL STATION DATA FORM

- 1. State, Administrative (100-0004) or State, Administrative (100-0690)
- 2. District, Administrative (100-0543)
- 3. Name, Climatological Station (143-4914)
- 4. Number, Climatological Station (181-8515)
- 5. County, etc. (100-0546)
- 6. Code, Watershed (145-5304)
- 7. Latitude (100-1236)
- 8. Longitude (100-1237)
- 9. Elevation (100-0431)
- 10. Agency (100-2576)
- 11. Parameter, Climatological (100-5377)
- 12. Value, Climatological Parameter (100-5376)
- 13. Date, Recorded (100-8518)
- 14. Time (100-6926)
- 15. Time Interval For Measurement (143-4925)
- 16. Method, Measurement (100-5311)
- 17. Initials, Recorder, Collector (100-6546)

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    - for code, Matershed (145-5504)
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      - 9. Elevation (100-0831)
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Prog. Area: Watershed-Air .
Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION:

AIR RESOURCES INVENTORY MAP

FORM: A field map

DESCRIPTION: A map containing air resources data for an inventory area.

PREPARATION RESPONSIBILITY: Air Resources Specialist or Meterologist at

Resource Area Headquarters or District Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new air resources inventory data is

compiled.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives and record

new map data.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

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WOLFSCHOOL DESIGNATION ATAM

TITLE/DESIGNATION: AIR RESIDENT STORMS AND TAKES

FORM: A field man

DESCRIPTIONS A map contrading als resources data for an insurance and .

REPARATION RESPONSIBILITY: Air Resources Specialist or Materalogiet at

FORMAT: See etterhed semale inquit.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years or new one nessureds inventor dat is compiled.

VOLDE: OF UPDATE: 60 maps per year regustyn for all former artifact

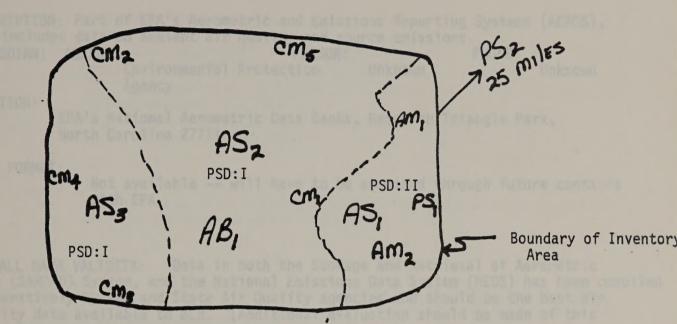
ARCHIVING REQUIREMENTS: When updated, nowe old into sa archives and record

ACCESS LESSTATIONS: To be differentiated

SPECIAL EDITION OF THE CONTROL OF TH

#### AIR RESOURCES INVENTORY MAP

STATE (0004)(0690)DATE (2302) (2306) DISTRICT (0543) P.U. (1075)



#### LEGEND

AM<sub>1</sub> - Air Quality Monitoring Site No. 001
AM<sub>2</sub> - Air Quality Monitoring Site No. 002
CM<sub>1</sub> - Climatological Station Site No. 0001
CM<sub>2</sub> - Climatological Station Site No. 0002
CM<sub>3</sub> - Climatological Station Site No. 0003
CM<sub>4</sub> - Climatological Station Site No. 0004
CM<sub>5</sub> - Climatological Station Site No. 0005
PS<sub>1</sub> - Point Emission Source (Sawmill Burner (4910)

(8515)

PS1 - Point Emission Source (Sawmill Burner)

PS2 - Point Emission Source (Coal-Fired Power plant)

- Sawmill Airshed, No. 1

- Middle Airshed No. 2 (4978)

- Clean Airshed No. 3

Colorado Air Basin No. 1 (4959)

PSD:I - Class I, Prevention of Significant Deterioration (4987)

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Prog. Area: Watershed - Air
Prep. By: G. Lipscomb \_
Date: 22 June 78

(Revision)

# DATA SOURCE DESCRIPTION (INITIAL DATA BASE GENERATION)

AI-9

TITLE OF SOURCE: EPA's SAROAD and NEDS Data Systems

FORM: Probably magnetic tape

DESCRIPTION: Part of EPA's Aerometric and Emissions Reporting Systems (AEROS),

and includes data on ambient air quality and source emissions.

CUSTODIAN: AGENCY: PERSON: PHONE:

Environmental Protection Unknown Unknown

Agency

LOCATION:

EPA's National Aerometric Data Banks, Research Triangle Park,

North Carolina 27711

DATA FORMAT:

Not available -- will have to be acquired through future contacts

with EPA.

OVERALL DATA VALIDITY: Data in both the Storage and Retrieval of Aerometric Data (SAROAD) System, and the National Emissions Data System (NEDS) has been compiled cooperatively by EPA and State Air Quality agencies and should be the best air quality data available to BLM. (Additional evaluation should be made of this source).

OVERALL DATA CURRENCY: Both data banks are updated periodically as data is collected, compiled, and submitted by cooperating State agencies under agreements with EPA.

ACCESS/SECURITY LIMITATIONS: Not yet determined at present time -- will require future contacts with EPA.

ESTIMATED VOLUME: Unknown at present time -- will require followup with EPA.

PARTICIPATION INTO ACCUPATION

9-17

TITLE OF SOURCE: EPS'S NAMED AND RESS CALLS SPECIMEN

FORM; Probably magnates tags

DESCRIPTION: PORR of EDRIG Promotoric and Entertons Portering Surveys (12003).

Fort commental Protection Universe

CONTROLS

EPA's Mational Aerometric Data Banks, Research Triangle Park,

DATA FORMAT:

liot available -- will have to be acquired through Fitting contacts

OVERALL CATA VALIDITY: Opto in poto sim Storage and Untrivers to A metric Date (SAROAD) System, and its Matronal Emissions Date State (MEDS) has been comperatively by EPA and State Arm (Astronal evaluation should be one been aim quality data available to BLM. (Add worsh evaluation should be made of this source).

OVERALL DATA CURRENCY. Soul data backs are updated periodically as dath is collected, compiled, and submitted by according state occurred as a selected on an arrest enter EPA.

LES Willes granties crime -- will require following with EPA.

SHOW .: 23 FM 139

Prog. Area: Watershed - Air

Prep. By: G. Lipscomb

Date: 22 June 78 (Revision)

DATA SOURCE DESCRIPTION (INITIAL DATA BASE GENERATION)

AI-10

TITLE OF SOURCE: NOAA's National Climatic Center (NCC)

FORM: Probably Magnetic Tape

DESCRIPTION: A data bank containing surface and upper level climatic data for

CUSTODIAN: land, ocean and mobile (air, sea) stations.

PERSON:

P

PHONE: FTS 672-0683

National Climatic Center Environmental Data Service

LOCATION: National Oceanic and Atmospheric Administration

Asheville, North Carolina 28801

DATA FORMAT:

Not available -- will have to be acquired through future contacts with the National Climatic Center.

Unknown

OVERALL DATA VALIDITY: Data in the Climatic Centers' data bank comes from the weather station network of the Weather Service plus other miscellaneous stations and represents the best source of Climatic data.

OVERALL DATA CURRENCY: Data from land weather stations, which is of greatest interest to BLM, is continually collected and the data base updated accordingly. Therefore, source data should be current.

ACCESS/SECURITY LIMITATIONS: Not yet determined -- will require future contacts with the National Climatic Center.

ESTIMATED VOLUME: Unknown at present time -- will require followup with NOAA.

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DESCRIPTION: A data bank containing surface and upper lawel climatic data for customians.

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LOCATION: National Oceanic and Atmospheric Administration

DATA FORMAT:

Not available -- will have to be acquired through jubure convects with the Mational Climatic Center.

OVERALL DATA VALIBITY: Data in the Clinatic Conters data bank comes from the weather station network of the Meather Service clus other miscellules afternoon and represents the best source of Climatic data

OVERALL DATA CURRENCY: Oata from land residon stations, which is to assert interest to BLM, is continually collected and the data base uplated accommunativerefore, source data should ad current.

ACCESS/SECURITY LIMITATIONS: 'Thot yet dotermined -- will require follows con acc; with

ESTENATED VOLUME: Unknown at present time -- will require follows with MAAA

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb

Date: 22 June 78 (Revision)

GI-1

# DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Spring Inventory Schedule (Modified USGS Form No. 9-1904-B)

FORM: Coded Data Form

DESCRIPTION: A field data form for recording water data at a spring site.

PREPARATION RESPONSIBILITY: Hydrologist or Geologist at Resource Area HQ, DO, SO, or DSC.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

. FREQUENCY OF UPDATE: Each 10 years as new data is compiled for springs.

VOLUME OF UPDATE: 2 forms per day for all Bureau offices (see Preparation Responsibility above).

ARCHIVING REQUIREMENTS: When updated, remove old data regardless of age and move to history file, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

TITLE (CESTANTION) Species Inventor Complete Work from to 0-1004-3;

FORM: Coded Cats Form

DESCRIPTION: A fluid care form for recording natur data at a appring also.

PREPARATION RESPONDENTELTY: Hudrologist or Geologist at Resource Area HD. 50, 50, on 050,

FORMAT: See effected sample true

DATA ENTRY PROGRAME: To be determined.

FREQUENCY OF UPDATE: . Each is years as were take it compiled for springs.

VOLUME OF HPDATE: 2 Forms per day for all Surpay offices (see Preparation

ARCHIVIAG REQUIREMENTS: Mean undated, remove uld data requestions of age and move to intelligate the record new data. Retain historical data industritally.

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SEMANE: Nume.

01	MER SPRING	T- A	D M *	Spring's Name	172 -				(4061)	GI-1 2 of 2
(5111	Type of E	173 - A	B C perched, contac		F G	H J perched, arteson, a tubular dispression a	K - L P	Q R S perchal, perchal propage fracture seepage filtratio		
(5110	Fermanence [	174 = E	G I	P R	S Z	Sphere of Di	charge 175 = A	W + (5]	109)	A);
(5108	mprovements (	176 = 8 boxed, boson	C G concrete, galler bean	H L y, spring, limit, house	N P R	T Z s	Number of Openings 1	77- 10	(5107)	
	Flow Variability	178 -		Basis for Variability 179	one year,	B C 1-5 years, ever 5 years continuous continuous	D E over year, less then, intermittent A-D	Z 9 other	,	
(5104	R = 90 *		D M *	Litho	(518) 96-	Li	chologic 97 « )	(5189)	· · · · · · · · · · ·	
w	R-114 +	T- A I	CTION NETWO	Begin 115#		End 116=		ource 117-	-	
	Frequency of Collection Network Sit	957.	10	Analyses (5157	120 = A	B C common, trace, po chemical elements	D E F	G H J , codes, codes, codes, BBD BBE B&F	K L M Z + codes, codes, all or, ether D&E C,D&E ment	
W	R = 127 *  Frequency of Collection	T= A (	M + ere, modify	Begin 128# Year 138 Method of 13 Collection	3= C	E M estimated, metered, s	2 * *	ource 130 =		
0	R = 1 8 0 *		lete, modify	Type of 181 # Type of 181 # Data				D Z * For 20 district, ether D Z * For 26	S1 = F M P Z files, reschine, published, oth reschible S1 = F M P Z	
(6954)	R = 1 8 3 +	MARKS (1)  T = A *  rd Same R&T	185-							
P	OOT NOTES:	cy of Collection C								_
	A ennu	B af, bi-monthly, ca	C D	F I semi , intermitte menthly	M Ø nt, monthly, one time anly	Q S W a, quarter, same, wealth annual annual	Z . other			
						MENENTS	To be	aper,		
							-2.			

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 22 June 78
(Revision)

GI-2

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Ground-Water Site Inventory Schedule (Modified USGS Form No. 9-1904-A).

FORM: Coded Data Form.

DESCRIPTION: A field data form for recording water data for ground-water sites other than springs.

PREPARATION RESPONSIBILITY: Hydrologist or Geologist at Resource Area HQ, DO, SO or DSC.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is compiled for ground-water sites other than springs.

VOLUME OF UPDATE: 4 forms per day for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, remove old data regardless of age, and move to history file, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

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FORM: Coded Date Form.

DESCRIPTION: A FIGH dues for reporting seein data for proving above that seeing above eleca

PREPARETION RESPONSIBILITY: Hydrologist or Geologist ot Passurce Area HQ.

FURNAT: See attached basele taput,

DATA ENTRY PROCEDURE: To be down wined

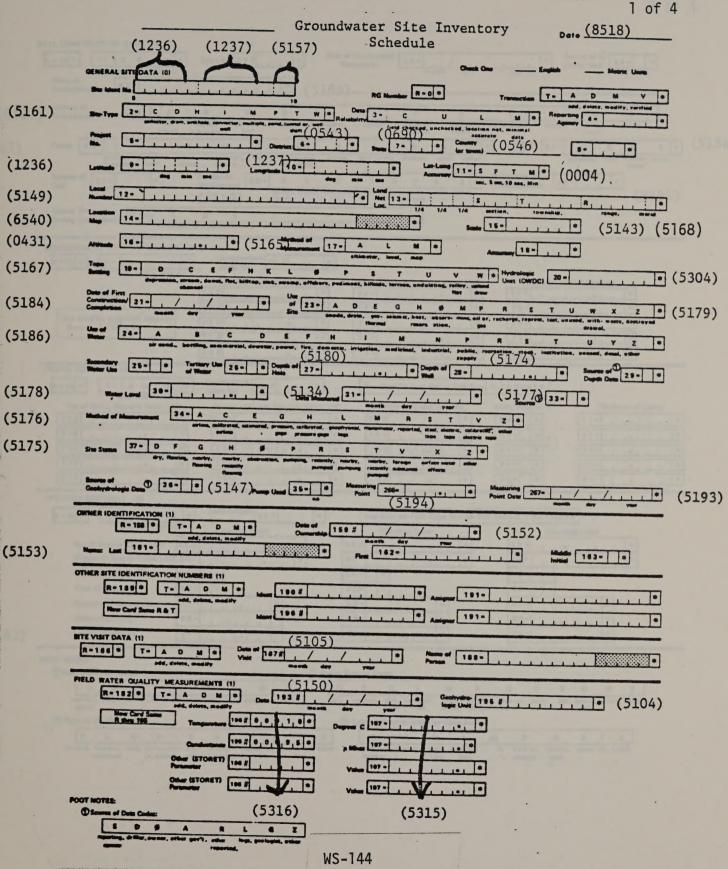
FREGUENCY OF UPDATE: Each 10 years on new date is complied for empure-water

VOLUME OF UPDATE: 4 forms per day for all Bureau offices

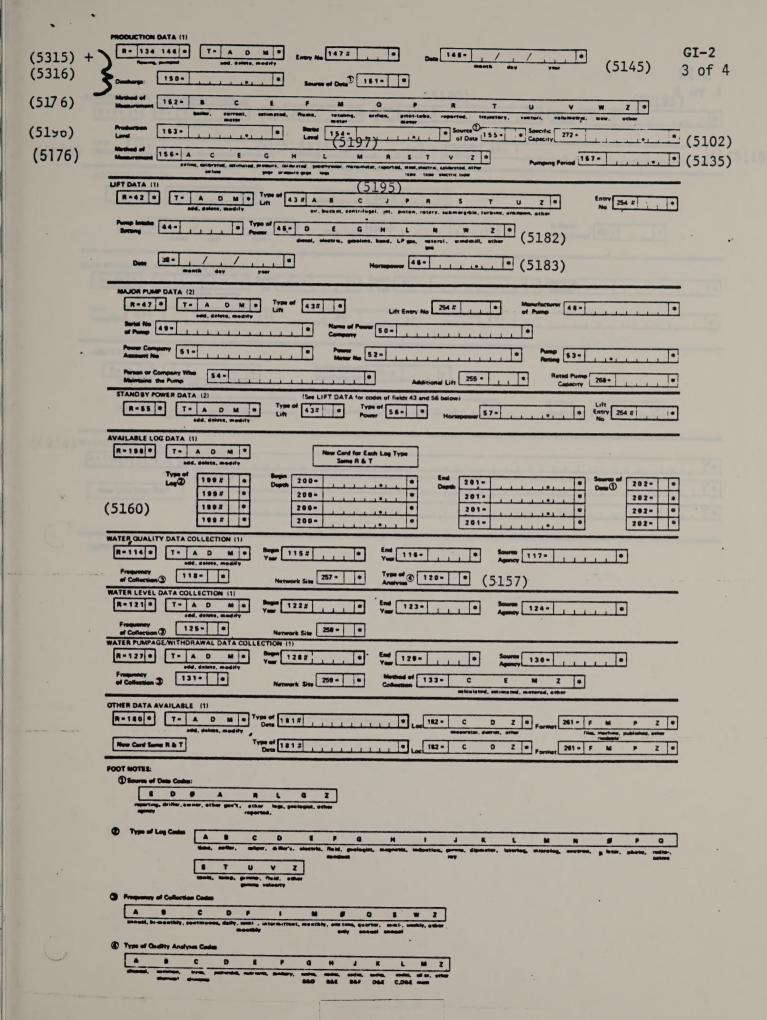
ARCHIVING REQUIREMENTS: When updated, memove old onto regeritors of age, and move to history file, and record new data. Recein history all data indefinitely.

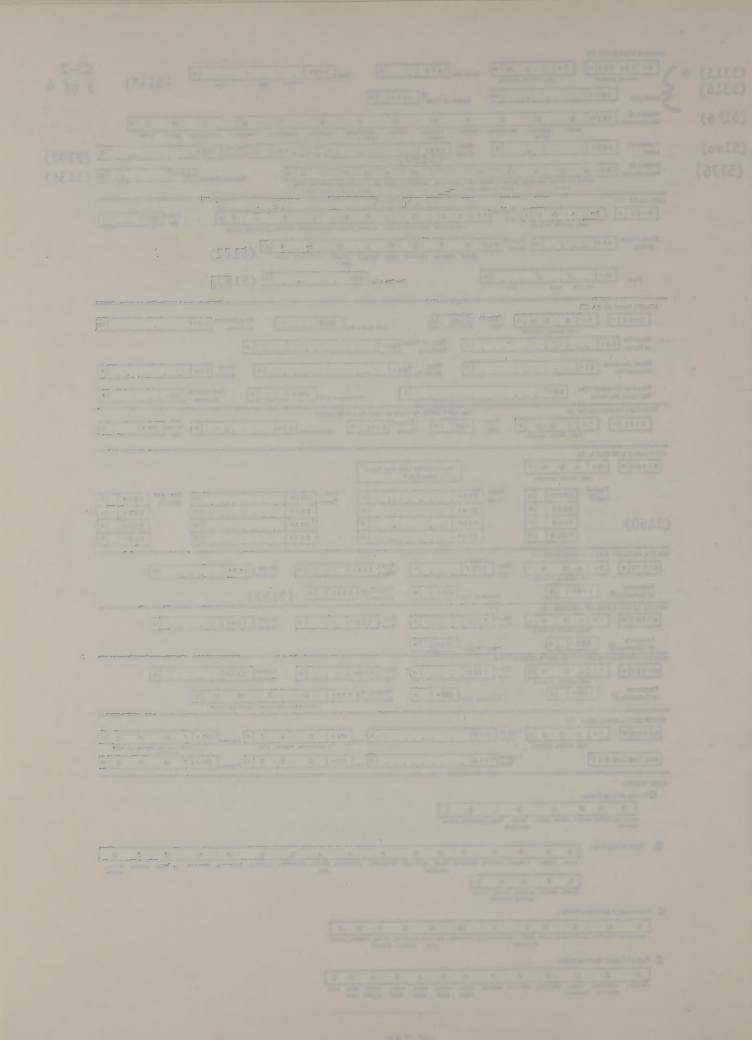
ACCESS LIMITATIONS: To be determined.

SPECIAL FORMANDER MALIBETTON SETUPICHTS: To be developed



(5181)	WELL CONSTRUCTION DATA (1)    N = SB *   T = A D M * Entry No 5 9 #   * Date of Construction   60 = / / /
Final	Contractor/Driller 83 *
Second Treatment   To   C   D   F   H   Z   Second Treatment   To   Chemical Supervision   To   Chemical Supervi	retery er suggested tool retery susseen retery wash  7) Finish 66 = C F G H Ø P S T W X Z Type of 67 - B C G Z *  percus, gravel w, gravel , horizontal, open, perforated, acreen, sand point, walled, open, other barbonce, clay, cament, ether
Dimer   Dim	Seel Development 99" A B C J N S Z I in Development 70"   1
New Card for Each Hole Segment   Top of Hole Segment Below LSD   Tole	During Development 71 C D E P H M Z T Chemicals, dry ice, explosives, defloculent, hydrofracturing, machenical, ether
New Card for Each Hote Sagnest   Same R, Y & Fried & 9   Take   Sagnest   Sa	add. delete, medity  Top of Hole Segment Below LSD  Bottom of Hole Segment below LSD  Diameter of Hole Segment
A	New Card for Each Hole Segment
Top of Casing Segment Below LSD   Processor of Casing Segment Below LSD   Top of Casing Segment Below LSD   Top of Section Below LSD   Top of Material   Top of Material   Top of Section Below LSD   Top of Sec	R = 76 + T = A D M + Construction 59 #   New Card for Each Casing With Same R, T & Field 59
OPENINGS SCHEDULE (2)    Second Schedule   S	Top of Casing Segment Below LSD  77#
T = A D M * add, delete, medity  Top of Section Below LSD  Bottom of Section Below LSD  Type of Openings  S = 4  Type of Openings  S = 4  Type of Material  Diameter of Open Section  S = 4  Length of Opening  Length of Op	77# , , , , , , , , , , , , , , , , , ,
Bottom of Section Below LSD 84 =	New Card for Each Open Section With Same R, T and Field 5 9
Diameter of Open Section Width of Opening  87	Bottom of Section Below LSD 84 = \$84 = \$84 = \$
FOOT NOTES:  (1) Source of Date Codes:  (2) Source of Date Codes:  (3) Casing Material Codes  (4) C G J M P R S T U W Z  reporting, driffer, owner, other gos't, other legs, goologist, other segmenty  reported,  (5) Casing Material Codes  (6) C G J M P R S T U W Z  reporting, driffer, owner, other gos't, other legs, goologist, other price iron matel plastic stone  (6) Casing Material Codes  (7) Casing Material Codes  (8) C G J M P R S T U W Z  reporting, driffer, owner, other gos't, other legs, goologist, other price iron matel plastic stone  (8) Casing Material Codes  (9) Casing Material Codes	Diameter of Open Section 87 - + 87 - + 87 - + 88 -
(1) Source of Date Codes:  (2) Casing Material Codes  (3) C G I M P R S T U W Z  reporting, driffer, owner, other gos't, other legs, geologist, other separated, bris sensorate, gate, wrought, other, PVC or rect or, steel, tile, coated, weed, other separated.	
reporting, driffer, owner, other gos't, other logs, goologist, other bris sonersts, gate, wrought, other, PVC or rect or, stool, tile, costed, wood, other against stone stone stool	① Source of Deta Codes:  ⑤ Casing Material Codes
Type of Openings Codes     Type of Material Codes for Open Section	reporting, driffer, owner, other logs, goologist, other bris concrete, gate, wrought, other, PVC or reck or, stool, tile, costed, wood, other agency reported,





GI-2
GEOHYDROLOGIC UNIT DESCRIPTIONS (1)  R=90 * T- A D M * Entry 256 # Depth to
R=90 * T- A D M * Depth to Top 91 - Depth to 92- 80ttom 92-
(5104) Unit   93 =     (5188)   96 =
AQUIFER DATA (2)
R = 94
Date 95 # / / # Water Level 128 = 1 4 Contributed 132 = 1 4
GEOHYDROLOGIC UNIT DESCRIPTIONS (1)
R=90 a T= A D M * Entry 256 # a to Top 91=
Unit 93 =
PREDAMATICAL SECTION STATE TWO SECTIONS AT A RESECTION AFTER Mr. 100 or 50.
AQUIFER DATA (2)
R = 94 * T = A D M *  add, delete, modify  Geothydrologic Unit Entry No  256 # ,
Deta 95# /   * Water Level 126 =   * Contributed 132 =   *
(6954) PERTINENT REMARKS
R-183+ T- A + 185- \
185= \
New Card Same R&T
185-

Prog. Area: Watershed-Geol.

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

GI-4

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Geologic Hazard Map

FORM: A field map.

DESCRIPTION: A field map with legend displaying boundaries of areas with geologic hazards for a planning area.

PREPARATION RESPONSIBILITY: Geologist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is collected.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

Total total and spart

5-10

ANT THREE RESERVED AT A DESCRIPTION OF THE PARTY OF THE P

TITLE/OESTGRATION: Sectoric States Named

FORM: A MIGTO Mag.

offered data rears to retrebuted cultificated discharge of areas with decidents

PREPARATION RESPONSIBILITY: Geologist or Recourse Area HO, CO. or IC.

FORMAT, See attached sample incut,

DATA ENTRY PROCEDURE: To be determined.

EREQUENTY OF UPDATE: 'Each 10 years or ten date to an lackage

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ARCHIVING REQUIREMENTS - When worlsted, move old data to archaves, and record

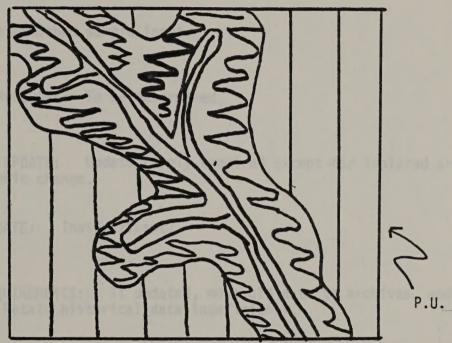
ACCESS LEMITATIONS: To ER determined.

SELLIAL EDITILLED TIME SOUTHERN FOR THE SECOND POSSESSION.

GEOLOGIC HAZARD MAP

State (0004) (0690)
District (0543)
P. U. (1075)

Date: (2302) (2306)



P.U. Boundary

Legend





Landslide Flood
Susceptibility Susceptbility



No Landslide/ Flood Susceptibility

(5129)



Prog. Area: Watershed-Geoll
Prep. By: G. Lipscomb
Date: 22 June 78
(Revision)

GI-7

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Topographic Map

FORM: A field map.

DESCRIPTION: An overlay with annotations/legend displaying lines of equal land surface elevation for a planning area (URA Step 2).

PREPARATION RESPONSIBILITY: Geologist, Geomorphologist, or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Update rarely required except for isolated areas subject to topographic change.

VOLUME OF UPDATE: Insignificant.

ARCHIVING REQUIREMENTS: If updated, move old data to archives, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: Data for this input may be acquired from US Geological Survey.

DATA SACE NATURES ATAD

TITLE/DESIGNATION: Topographic Nag

SORRE A PROTE MUSE

DESCRIPTION: An everlay with enactions/legent displaying lines of equal

PREPARATION RESPONSIBILITY: Geologist, Geomorphologist, or Planner at

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To EN Accessoration

FREQUENCY OF UPDATE: . Update ramply regulared except for isolated are a supress to tolographic change.

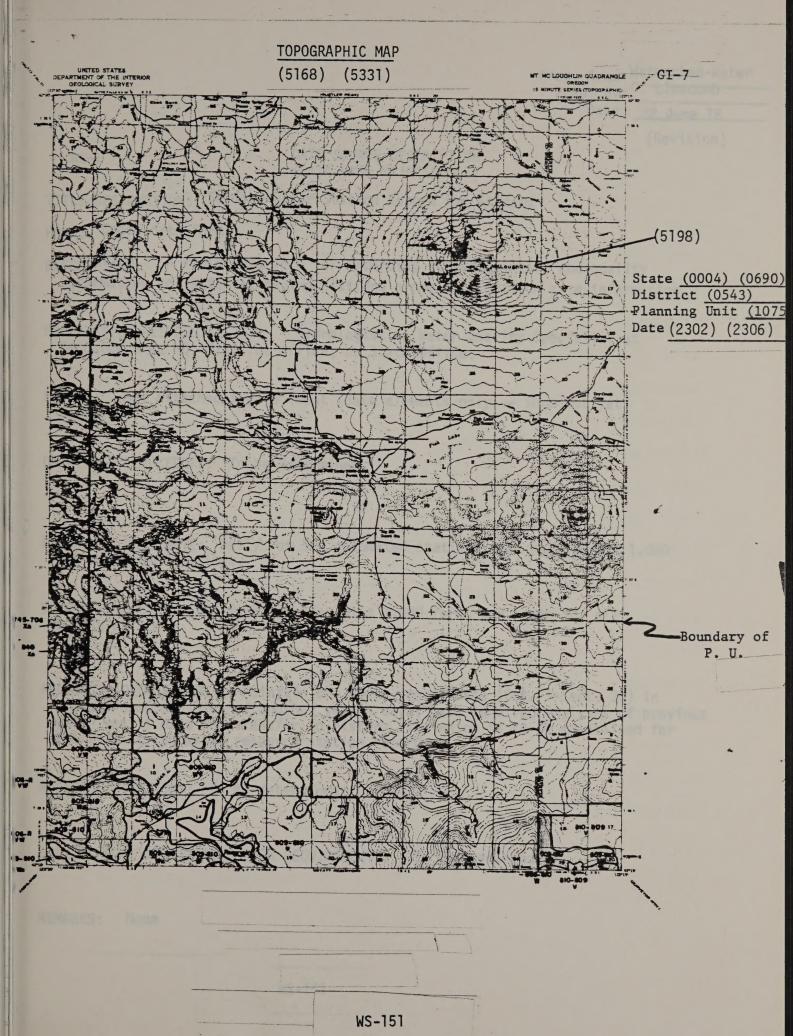
VOLUME OF UPDATE; TERRICORPREDER.

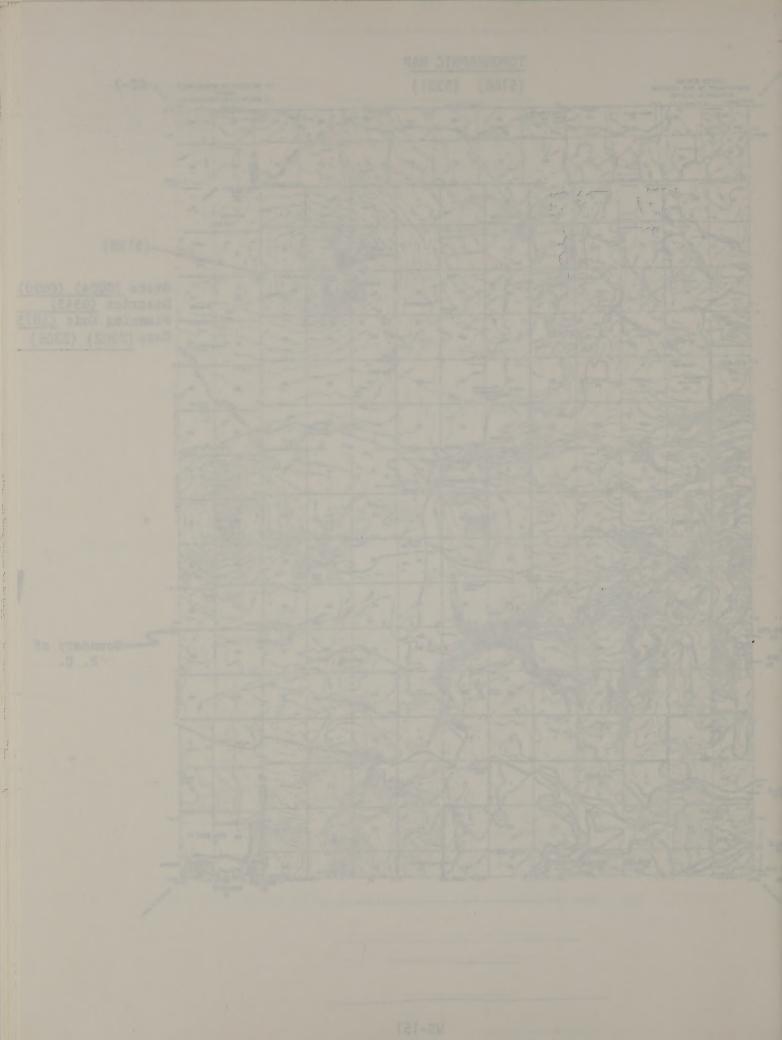
ARCHIVING REQUIREMENTS: "If undated may out date to occasive and record new date. Retain historical date incoffn@203v.

ACCESS LIMITATIONS: To Fill dotermined.

second ed or ser amount of the developed,

REMARKS: Data for whis input may be acquired from US Gaelegles! Surmey,





Prog. Area: Watershed-Water

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

WI-1

# DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Surface-Water Station Record for Streams

FORM: Coded data form

DESCRIPTION: A field data form for recording stream quantity and quality information collected at gaging stations along with station site information.

PREPARATION RESPONSIBILITY: Hydrologist or Water Quality Specialist at Resource Area HQ, District Office, or State Office.

FORMAT: See attached sample input (data elements only -- form not yet designed).

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Daily for 500 automated stations, and monthly for 1,000 non-automated stations.

VOLUME OF UPDATE: 500 forms per day plus 1,000 forms per month for all Bureau offices.

ARCHIVING REQUIREMENTS: Maintain one water year's data (Oct. 1-Sept. 30) in system--upon addition of another year's data, make required analyses of previous water year's data and transfer to history file which is to be maintained for the life of the water resource station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

Town to read

product of french police

F-2- 1-11

DESCRIPTIONS. A flatil data form for receveling Edraem cashelty and disffray information.

PREPARATION, RESPONSIBILITY: Hydrologist or Mator Quality Specialist at Resource Area HQ, District Office, or State Office.

FORMAT: See attached sample input (data elements only -- form one yet designed).

DATA ENTRY PROCEDURE: To be determined,

FREQUENCY OF UPDAYE: Daily for 500 suteraced stations, and monthly for 1,000 - non-exponenced stations.

VOLUME OF UPDATE: 5 500 forms per day plus 1,000 forms per nonth up all

ARCHIVING REQUIREMENTS: Maintain one water year's data foot, 1-30at, 40) the system-suppo addition of another year's alta, make required analysa of previous water year's data and transfer to history file when the contact the water resource station we contact the water resource station when the station we can also station when the statio

ACCESS LIMITATIONS: To be determined,

Secretary of CT : Street Secretary Control of donorand

(100-5311)

### SURFACE-WATER STATION RECORD FOR STREAMS

### Data Elements 1. State, Administrative or (100 - 0004)State, Geographic (100-0690)District, Administrative (100 - 0543)Area, Resource (100-0418)4. Planning Unit (100-1075)County, ETC (100-0546)6. Latitude (127 - 1236)Longitude (127 - 1237)8. Meridian (127 - 1703)9. (127 - 1695)Township 10. Range (127 - 1699)11. (127-2506)Section 12. Legal Subdivision, Aliquot-part (127 - 2904)(145 - 5304)13. Code, Watershed (145-5303)14. Number, Station Type (145 - 5302)15. Name, Water Resource Station (145-5316)16. Parameter, Water Resource (145-5315)17. Value, Water Resource Parameter (100-8518)18. Date Recorded (100-6926)19. Time (143 - 4925)Time Interval for Measurement 20.

21. Method, Measurement

### SHAPE OF THE PARTY STATES AND ADDRESS.

(AUCO-001)	
(100-0343)	Colorsolately solve at 1
(200-0828)	
(26c0-001)	5- County, ETC
(127-1226)	6. Lectroda
(127-123)	7. Longituda
(122-0.703)	mainten.
	9. Township
\$691~1 t	10. Range
	rolana'. II
127-21	. 12. Logal Substitutation, Alternation
m [165-31]	13. Code, Waterebed
(105-3300)	
	15. Name, Maror Resource Statiles
( com CO I )	
	17. Value, Mater Resource Personier
(6.88-908)	
(800-700)	

		WI-1
		2 of 2
22.	Method Code, Water Quality	(145-5319)
23.	Code, Pollution Source	(145-5320)
24.	Elevation	(100-0431)
25.	Acres, Watershed Draimage Area	(145-5321)
26.	Comments, Miscellaneous	(100-6954)
27	Ormershin Water Resource Station	(145-5485)

ANCHIVING REDUINDMENTS: Maintain one water year's data (Oct. 1-Sept. 30) in

DESS LIMITATIONS: To be determined.

Conta, Pallington Source	

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb
Date: 22June 78

(Revision)

WI-3

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Surface-Water Station Record for Lakes/Reservoirs

FORM: Coded Data Form.

DESCRIPTION: A field data form for recording lake/reservoir quantity and quality information collected at gaging stations along with station site information.

PREPARATION RESPONSIBILITY: Hydrologist or Water Quality Specialist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input (data elements only--form not yet designed).

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Daily for 250 automated stations.

VOLUME OF UPDATE: 250 forms per day plus 500 forms per month for all Bureau offices.

ARCHIVING REQUIREMENTS: Maintain one water year's data (Oct. 1-Sept. 30) in system--upon addition of another year's data, make required analyses of file which is to be maintained for the life of the water resource station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

(Actaive)

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TITLE/DESTENATIONS Surface-Mater Station Record for Lakes/Reserveive

FORM: Coded Data Form.

DESCRIPTION: A field data form for recording lake/reservoir quantity and quality information collected of garing stations slong with station ellar information.

PREPARATION RESPONSIBILITY: Mydrologist or Mater Quality Specialist of Resource Area HQ, DO, or SO.

FORMATE See attached sample input (data elements only - form ont yet designed)

DATA ENTRY PROCEDURE: To Fin determined

FREQUENCY OF UPDATE: Daily for 250 automated exactors.

VOLUME OF UPDATE: 250 Forms per day plus 500 forms per sonth row all Bureau offices.

ARCHIVING REGULERATERTS: Mathicalo one water year's uses (Dock, 1-Sept. 20) in system-upon addition of another year's data, make required another of file which is to be maintained for the life of the water resource station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/ANDIT/VALIDATION REQUIREMENTS: To be developed.

(100-6926)

(143 - 4925)

## SURFACE-WATER STATION RECORD FOR LAKES/RESERVOIRS

#### Data Elements (100-0004)State, Administrative or 1. (100 - 0690)State, Geographic (100 - 0543)District, Administrative 2. (100-0418)Area, Resource 3. (100-1075)4. Planning Unit (100-0546)5. County, ETC (127 - 1236)Latitude 6. (127-1237)7. Longitude (127 - 1703)8. Meridian (127-1695)Township 9. (127 - 1699)10. Range (127 - 2506)11. Section (127 - 2904)12. Legal Subdivision, Aliquot-part (145 - 5304)13. Code, Watershed (145 - 5303)14. Number, Station Type (145 - 5302)15. Name, Water Resource Station (145 - 5316)16. Parameter, Water Resource (145-5315)17. Value, Water Resource Parameter (100-8518)18. Date Recorded

19. Time

20.

Time Interval for Measurement

# DESCRIPTION STATEMENT ROSS CARGOST REPORTS AND ADDRESS.

(101-0313)		
(8510-001)		
(100-0073	22m2 galimuts	
(6650-666)	in short pant	
(127-170)	refolael.	. 8
(207-700)		
	Rango	
	moreco	
162 [71]	Legal 9-deledadom, Alderst-mark	
198 see.		
(2068-5302)	Hater Resource Station	
(185-331)	Parameter, Mater Seconded	
208 3.83	Volue, Vater Sesource Poramoter	

21.	Method, Measurement	(100-5311)
22.	Method Code, Water Quality	(145-5319)
23.	Code, Pollution Source	(145-5320)
24.	Elevation	(100-0431)
25.	Acres, Watershed Drainage Area	(145-5321)
26.	Water type, Lake and Reservoir Survey	(161-6935)
27.	Comments, Miscellaneous	(100-6954)
28.	Ownership, Water Resource Station	(145-5485)

PREDERATION RESPONSIBILITY: //yoroTopist or Engineer at Resource free 40, 00, or 50.

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(265-3321)	in the second bounds	
(icea-tat)		
(0203-001)		
	This washing the same and the same	

Watershed-Water

Prog. Area:

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

WI-8

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Channel and Stream Information Map

FORM: A field map

DESCRIPTION: A map with annotations and legend delineating watershed boundary and drainage network, stream order numbers, stream cross-section locations, and stream reaches.

PREPARATION RESPONSIBILITY: Hydrologist or Engineer at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 2 years as additional channel/stream data is compiled through inventories and surveys.

VOLUME OF UPDATE: 500 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives, and record new map information.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

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FORM: A. FIRTS MAD

precentry: A.m.o alth annotations and levend delineathy external boundary and drainage network, stream order numbers stream cross-section locations, and stream reaches.

PREPARATION RESPONSISILITY: Nudrologist or Engineer at Resource Area RI, DB, or SC

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined,

engoverer of vents. For 2 years of disonal channel/stream acts in

VOLUME OF UPDATE: 500 maps per year inclusive for all Bureau offices

ACCHIVING REQUIREMENTS: When updated, now old man data to occhives, and

ACCESS LIMITATIONS: To be determined

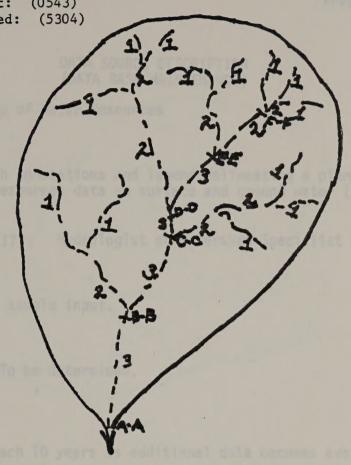
seems and the second seconds to be developed

State: (0004) (0690)

District: (0543)

Watershed: (5304)

Date: (2302) (2306)



Legend		
1	(5335)	Stream of first order
2	n. Retain	Stream of second order
3		Stream of third order
A-A	(5347)	Cross-section of stream at mouth of basin
А-В	(5351)	Reach of Stream between A-A and B-B
		Basin boundary
->		Direction of flow

Watershed-Water

Prog. Area:

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

WI-10

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Water Resources

FORM: A field map

DESCRIPTION: A map with annotations and legend delineating a planning area together with water resources data on surface and ground water (URA Step 2).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as additional data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices

ARCHIVING REQUIREMENTS: When updated, move old map data to archives, and record new map information. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: 7 To be developed.

inversees grane pro

TITLE STREET CHE " NOT HERE RESOURCES

FORM: A ffold map

DESCRIPTION: A was with ennotations and legend delineating a planning order together with water resources date on surface and ground water (IRA Step 2).

PREPARATION RESPONSIBILITY: \_ Audiologist or Watershed Specialist at Resource Area HQ or DQ."

FORMAT: See attached. sample input.

DATA ENTRY PROCEDURE: To fill determined.

PREGUENCY OF UPDATE: Each 10 years on additional data becomes scalinble for URA, NOTE update.

VOLUME OF UFDATE: 60 1905 par voor for 211 ursen offices

ARCHIVING RECHIREMENTS; when modeled, move old mas dele to enchives, and record new men information. Detain historical data indefinitely.

ACCESS LIMITATIONS; To be determined.

SPECIAL ENTRACTOR NALED OF THE MODERNESS TO DO ACTORDOOM.

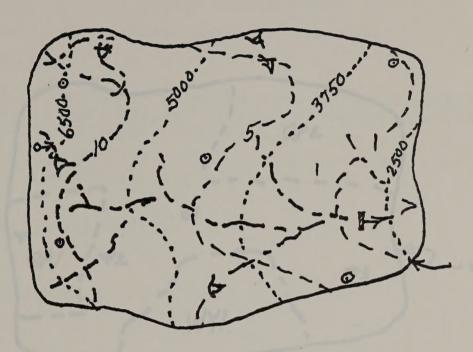
#### MAP OF WATER RESOURCES

State: (0004) (0690)

District: (0543)
P. U.: (1075)

Basin: (5304)

Date: (2302) (2306)



boundary of P. U.

L	e	g	en	d

Stream

Well (5149)

Reservoir (5464) (5463)

Detention Dam

Spring (5149)

-5Average Annual Runoff (inches) (5417)

- - - 2500 - - - Ground-Water Level (feet above MSL)

BEADY

DESCRIPTION OF THE PARTY TO TAKE

-U -T To versioned

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Section (1246) stoches

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Spring (Sids)

freeing travel Burill (Anches) (3417)

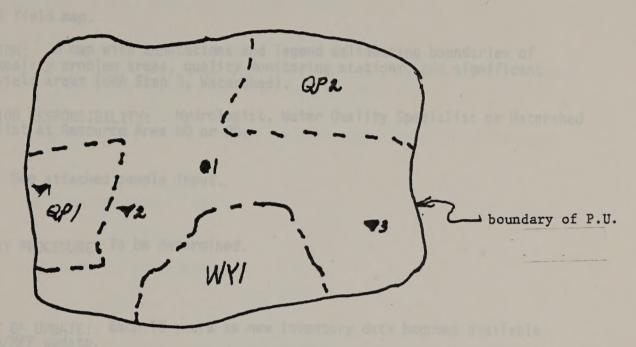
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#### MAP OF WATER QUALITY AND WATER YIELD

State:: (0004) (0690) District: (0543)

P. U.: (1075)

Date: (2302) (2306)



Leg	end

₩ater quality monitoring station No. 1 (Stream) (5303) (5302)

● 1 Water quality monitoring station No. 1 (Well)

QPI Water quality problem area (sediment from area with poor ground cover)

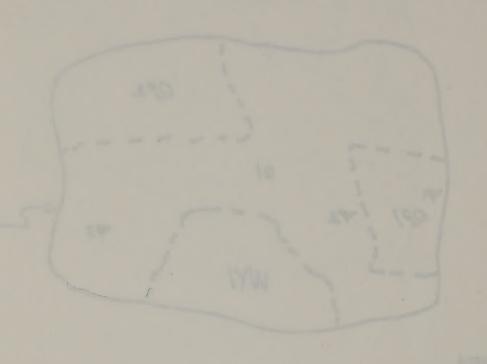
QB2 (5304) Water quality problem area (sediment from area with poor ground cover)

WY1 Significant water yield area (municipal water supply)

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(33) (3302) Waser quality contacting exactor No. 1 (Wal.

first area most insulted area and one problem area (formed proved from a cover).

(zame) Water quality riching and (nediment iron orea)

Stratificant vator pield area (suntaipel vater supply)

Prog. Area:

Prep. By: G. Lipscomb

Date: 22 June 78

WI-11

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

(Revision)

TITLE/DESIGNATION: Map of Water Quality and Water Yield

FORM: A field map.

DESCRIPTION: A map with annotations and legend delineating boundaries of water quality problem areas, quality monitoring stations, and significant water yield areas (URA Step 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist, Water Quality Specialist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new inventory data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

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LI-IN

TITLE/DESIGNATION: Map of Mater Custity and Mater Yish.

FORM: A FIEld map.

DESCRIPTION: A map with annotations and lagered delineation. Councaries of water quality problem areas, quality mentioning stations, and significant water yield areas (URA Step 2, Naturally).

PREPARATION RESPONSIBILITY: Hydrologist. Natur Quality Specialist or Vateranied Specialist of Resource Area Hd or DO.

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PREGUENCY OF UPDATE: Each 10 years as new invariency data bacters available

VOLUME OF UPDATE: 60 PAPE PART YEAR FOR ATT SUPRAN OF THE PARTERS

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ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AGGIT/VALIDATION NEGOTINESSITS: To be dayeloped.

SEMANUS: NOW.

Watershed-Water

Prog. Area:

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

WI-12

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Flood and Sediment Damage

FORM: A field map.

DESCRIPTION: A map with annotations and legend delineating boundaries of flood and sediment source and damage areas (URA Step 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new inventory data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

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MI-IV

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TITLE DESIGNATION: 180p of Flood and Sediment Damine

FORM: A Hald map.

nescation: A map with annotations and legend del neering houndaries of Flood and sediment source and damage areas (URA Step 3, Wetershee).

PREPARATION RESPONSIBILITY: Hydrologist or Materihed Specialist at Resource Area HO or DO.

FORMAT: See attached sample famul-

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ENEQUENCY OF UPDATE: Each TO years as new lumanismy Jata bicomes available

VOLUME OF UPDATE: 60 caps per year for all surcess affices.

ARCHIVING REQUIREMENTS: Man undahed, mure old-man dela to archives and

ACCESS LIMITATIONS: To be decemmined.

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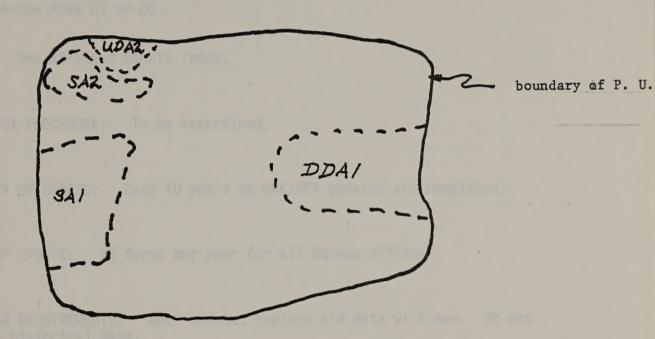
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#### MAP OF FLOOD AND SEDIMENT DAMAGE

State: (0004) (0690)

District: (0543)
P. U.: (1075)

Date: (2302) (2306)



Legend
(DDA1,
UDA2,
SA1,
SA2,

(5471)

Damage area No. 1, developed

Damage area no. 2 undeveloped

Source area for DDA1

Source area for UDA2

#### STANDS THE PROPERTY OF THE PARTY OF THE PART

Deter (2001) (2006)

State: (000A) (0590) StateStat (0393) 2. U. : (1075)



Desagn area no. 2 undersloped

SASII 209

(SAN)

337,00

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

WI-20

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Table of Water Developments by Resource Activity

FORM: URA data form

DESCRIPTION: A form for recording water development project data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

DATA STURES DESCRIPTION OF A CASE

VI-20

TITLE/DESIGNATION: Table of Mater Savelegement by Mesource Scalulty

FORT: URA Sata form

DESCRIPTION: A form for recording water daystopment project data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Nodeologiat, Naturaled Specialist or Planter at Resource Area NO or DO.

FORMAT: See attached sample (mput.

DATA ENTRY PROCEDURE: To be determined.

TERRETON OF WELLTE: Each 13 weeks as URANIT wedness are completed,

VOLUME OF UPDATE: 60 forms per year for all Sureau offices

ARCHIVING REQUIREMENTS: Open update, replace ald data with new, Do not retain historical data.

ACCESS LIMITATIONS: To be decembed.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be daveloped.

Table of

State (0004) (01040) Water Developments by Resource Activity

District (0543) -

P.U. Little Hills (1075)

(2302) (2306) Date 8/17/74

(SUL3)	OVERLAY KEY NO. OR PROJECT NO.	(5465) DIRECT BENEFITING RESOURCE ACTIVITY	(5466)  MAJOR OBJECTIVE	(5467) (5468) AMOUNT/ SIZE
Reservoir	2536	Wildlife	Big Game Summer Water	1 ac. ft.
Guzzler	2764	Wildlife	Upland Game Water	300 gal.
Well	2765	Livestock	Distribute Grazing	30/gal/min
UEDATE:	Each 10 years as	UFA/NFF III	detes are completed	
DATE: 60	torms per year 1	or, s11 Sun	au offices.	
QUIRENENTS:	Upon updatek, r	aplace old	distribute new . Se	not retail
ATTOMS:	To be determine			
/AUGUST/WAL	DATION REQUIREMEN	TS: 70 00	developed,	

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Prog. Area: Watershed-Water

Prep. By: G. Lipscomb

Date: 22 June 78

(Revision)

WI-21

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Table of Significant Water Yield Areas

FORM: URA data form.

DESCRIPTION: A form for recording water yield data for a planning area (URA 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

# TABLE OF SIGNIFICANT WATER YIELD AREAS

State (0004) (0690)

District (0543)

P.U. (1075)

Date (2302) (2306)

Watershed Name	Map Key	Mean Annual Runoff (AC/FT)  BLM Other		Runoff	Mean Annual Water yield (AC/FT)	
(5416) WS-169	(5304)	(6594)	(6597)	(5417)	(5419)	
					WI-21	

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## FLOOD and SEDIMENT DAMAGE TABLE

State (0004) (0690) District (0543) P.U. (1075)

Date: (2302) (2306)

Damage Area	Acres	Type of Damage	Estimated Annual Damage
(5471) WS-171	(5472)	(5473)	WI-22

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contractor.	
	No.
Process	

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Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

WI-22

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Flood and Sediment Damage Table

FORM: URA data form

DESCRIPTION: A form for recording flood and sediment damage data for a planning area (URA 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

Trop. Ser. E. Lineaus.

DATA SOURCE DESCRIPTION

WI-22

TITLE/DESIGNATION: Flood and Sedfamet Decays Table

FORM: URA data form

DESCRIPTION: A form for recording front and addingna downing data for planeture

PREFARATION RESPONSIBILITY: Hydrologist or Watershed Spacialine at Resource

CORNAT: See attached sample input,

DATA ENTRY PROCEDURE: To Le FRI ENGLESC

FREQUENCY OF UPDATE: Each 10 grant as TEALHER updates are deep ated.

VOLUME OF UPDATE: 60 force pur year for all livesu offices.

ARCHIVING REQUIREMENTS: Upon unders, restors and data with new. Do rot retain intercented data

access transfer to be dependent.

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REFARIS: None

15-170

Prog. Area: Watershed-Water

Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

DATA SOURCE DESCRIPTION WI-24 (INITIAL DATA BASE GENERATION)

TITLE OF SOURCE: WATSTORE Files (5) of U.S. Geological Survey (USGS)

FORM: Cards/Magnetic Tape

DESCRIPTION: Consists of water quantity and quality data for both surface and

ground water maintained by Geological Survey.

CUSTODIAN: AGENCY: PERSON: PHONE:

U.S. Geological Survey Linda Saindon 303-234-2404

LOCATION:

USGS National Center, Reston, Virginia

DATA FORMAT: Unknown at this time -- to be determined.

OVERALL DATA VALIDITY: Data has been collected and screened by Geological Survey from over 100,000 sites operated by USGS or their cooperating agencies. All data for stations of interest to BLM would be valid.

OVERALL DATA CURRENCY:

Data is current as collected for all stations and valid for BLM needs (for those stations of interest to BLM).

ACCESS/SECURITY LIMITATIONS: Authorization to use WATSTORE must be obtained from Chief Hydrologist, U.S. Geological Survey, National Center, Mail Stop 409, Reston, Virginia, 22092. Access/security limitations are given in the WATSTORE Users Guide (Pages A-6 & A-7 of Chapter I).

ESTIMATED VOLUME: Unknown at the present time -- will require follow-up with USGS.

REMARKS: WATSTORE files include (1) Station Header File, (2) Ground Water Site Inventory File, (3) Water Quality File, (4) Peak Flow File, and (5) Daily Values File.

This recommended source is based on the assumption that BLM's data base will include water quantity/quality data rather than using other agency systems (WATSTORE, STORET, etc.) for storage, analyses and retrieval of BLM Water Data.

Manual Manual Company of the Company

DC-TW

THE OF SOURCE HATTORE PILES (5) of 1). S. Contonical Married Princip

FORM: Cards/Nagnes/c Tape

DESCRIPTION: Consists of water questity and quality data for both surface and graund water maintained by Coological Survey.

CUSTODIAM: AGENCY: PERSON:

U.S. Geological Survey Linds Saindon 303-228-2404

:MOTTAGOJ

USGS National Center, Reston, Virginia

DATA FORMAT: Unknown all this time -- to be determinad.

OVERALL DATA VALIDITY: Data was been collected and screened by Geological Survey from over 100.000 sites operated by Late or their concerning gond is.

OVERALL DATA CURRENCY:

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ACCESS/SECURITY LIMITATIONS: Authorization to use MTSTORE suck by obtained from Chief Hydrologist, U.S. Geological Survey, Mational Center, Mill Stop Sid. Restor, Virginia, 22092. Access/sucurity limitarions are given in the WATSTORE Users Guide (Pages A-6 & A-7 of Campber 1)

ESTINATED VOLUME: Unknown at the present time -- will require follow-up

REMARKS: WATSTORE files include (1) Statics Header File, (2) Broard Water Lite Inventory File, (3) Water Quality File, (4) Feet Flow File, and (5) Daily Values Eile.

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557-2

WI-25

DATA SOURCE DESCRIPTION
(INITIAL DATA BASE GENERATION)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 22 June 78

(Revision)

TITLE OF SOURCE: STORET (Storage and Retrieval of Water Quality Data)

FORM: Disk/Tape

DESCRIPTION: A National data base of water quality information for streams,

rivers, lakes, and other bodies of water.

CUSTODIAN: AGENCY: Environmental PERSON: Thomas PHONE: 303-837-2226

Protection Agency (EPA) Entzminger

LOCATION: EPA Computer Service (Physical Location Unknown)

DATA FORMAT: Unknown at this time -- to be determined.

OVERALL DATA VALIDITY: Data has been collected by many agencies and entities and stored in EPA's National Data Base. Data for geographic areas of interest to BLM would be valid for BLM's Data Base. Water quality data for USGS stations is stored in this data base as well as in GS's WATSTORE System.

OVERALL DATA CURRENCY: Data is as current as the policy on submission by the contributing entities permits. For a geographic area of interest to BLM, the entire data base should be of value to the extent of confidence in the quality of the data.

ACCESS/SECURITY LIMITATIONS: Not yet determined -- will require future contacts with

E171

ESTIMATED VOLUME: Unknown at the present time -- will require followup with EPA.

REMARKS: Only the Water Quality File of STORET is recommended as an initial data base resource.

35-IW

CHITISA DATA DASE GENERATION

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PORTE DISTITUDE

DESCRIPTION: A Mathemal data base of water quality laformation for strains.

Fivers, Takes, and other modies of water.

CUSTODIAN: ACENCY: Environmental - PERSON: Thomas PHONE: 203-837-223

LOCATION: EPA Computer Service (Physical Location Unknown)

DATA FORMY: "Unknown El this time -- to be determined.

OVERALL DATA VALIDITY: Data has been collected by many menors, as antilled and stored in EPA's National Data-Base, Data or inspressors areas of interest to Did would be valid for BLM's Data Base. Mater quality data for USBE stations is ground in this data base as well as in CS's WATSTOKE Events.

OVERALL DATA CURRENCY: Data is as current as the policy on subsission by the contributing envities parells. For a personability area of orsered to BAN, the entire data base should be of value to the extent of sublineers in the unantry of the data.

ACCESS/SECURITY LIMITATIONS: Max yet determined -- will require future contacts with

ESTEMATER VOLUME: Unknown at the present time -- will require followup with

### D. Processing Requirements

- 1. <u>Models</u>. The requirements for processing related to watershed models have not been identified as yet. High priority outputs will not require the use of models. However, with complete implementation of the Watershed Information System, it is expected that several watershed models will be required. Most of these models would be acquired from other agencies and universities.
- 2. <u>Statistical Calculations</u>. Of high priority outputs, only a few require statistical calculations. However, it may be expected that a large number of ad hoc outputs will require statistical analysis (e.g., regressions, correlation, etc.) for air, cover and water resources data. With full implementation of the Watershed System, a great deal of statistical analyses will be required.
- E. Probable Impacts. The establishment of a data base for the Watershed Program involves inventory data for soils, vegetative cover, climate, air quality, non-mineral geology and water resources. High priority outputs for each subsystem include: Soils 11; Vegetative Cover 1; Air Resources 3; Geology 5; and Water 10. Of these types of resource data only soils and vegetative cover are currently included in BLM Manual procedures (Soils 7312, 1731 and Vegetative Cover 7322.11, 1731). Initiation of the data base system will require modification of current soil and vegetative cover inventory forms now contained in Manual guidelines. In addition, procedures have to be developed for collection and recordation of climate, air quality, non-mineral geology, and water resource data since none presently exist. Specific impacts by type of data follow:
- 1. Soils (Subsystem 0141). Present Manual sections (7312.1, .2) cover soil inventory and interpretation procedures. Procedures, forms and reports must have major changes for adaptation to an automated data base. These changes must be made with close coordination of the Soil Conservation Service (SCS). Such coordination is required so that BLM data is compatible with that of SCS, and transfer/exchange of data between the two agencies can be automatically accomplished. To insure such compatability, both SCS and BLM soils forms have been included in the URD package. Some soils input data will also come from the Soil-Vegetation Inventory Method (1731).
- 2. <u>Vegetative Cover (Subsystem 0142)</u>. The present Manual 7322.11, Watershed Conservation and Development Inventory, contains procedures for collection of watershed cover transect data. This data is currently stored and retrieved through the WC&D, System 0008 which has been proposed for conversion to the information system data base. Future watershed vegetative cover data will come from the Soil-Vegetation Inventory (Manual 1731) and this data will update existing WC&D data currently in System 0008. Bridging this gap will require a major change in the existing system.

- Todoson or bession entracements for entracements of plants and alleged to compare the state of the state of the entracements are proved and alleged to an area of the entracements are seen as a see the entracement of the en
  - Statistical Calculations. Of high priority occaves, only a few require statistical calculations. However, it may be erected that a large museum of 50 hoc outputs will require statistical ensively its gray, recovers of the fact of the fact and water resource data. With full implementation of the facershed system, a greet deal of statistical engines will be required.
  - E. Probable impacts. The establishment of a data beta for und Matershed Program involves inventory data for soils vegetarive cover. Climate, air quality, non-mineral geology and weter resources. High priority outputs for each subsystem include: Soils 11; Verecative Cover 1; Air Resources 3; Geology 5; and water 10. Or these types of resource data only soils and vegetative cover are currently included in BLM Manual procedures (Soils 7312, 1731 and togetative Cover 7322.11, 1731). Intifaction of the data base system will require modification of current soil and vegetative cover inventory force one contained in Manual guidelines. In addition, procedures have to be days). Oped for collection and recordetion of climate, air quality, non-earneral geology, and water resource data since mone presently axist. Specific depology, and water resource data since mone presently axist. Specific depology, and water resource data since mone presently axist. Specific
- I. Soils (Subsyster OlA) Present Vanual sections (1312.).

  2) cover soil inventory and interpretation procedures. From source and reports must have major changes for adaptation as an automated data. These changes must be made and class coordination is required so that Pail Conservation Service (SCS). Such coordination is required so that Pail data is compatible with that of SCS, and transfer/exchange or data persuant to two agencies can be automatically accomplished. To insure such compatability, both SCS and BLM soils forms have been included in the UED package. Some soils input data will also come from the Soil-Verstainn inventory Method (1757).
- 2. Vereistive fover (Subsystem 0142). The present Manual 7322.11, Materales Concervation and Lavelorment Inventory, contains procedures for collection of materales cover transact data. This data is currently stored and matriceast the Wolf. System Gibb which has been proposed for conversion to the information system data base. Figure occurrently verticate and which will come from the Soil-Vegetation Inventory (Namual 1751) and this data will update existing Wolf data currently in System Gibb. Enrichments of the anguar change in the existing system.

- 3. Air (Subsystem 0143). Currently there are no Manual procedures or developed forms for collecting and recording climate and air quality inventory data. Developing necessary guidelines, forms, etc., for climate and air quality will require a major change in current operations. Coordination with other agencies will be required to permit exchange of air quality and climate data. Agreement between BLM and EPA will be required for the Bureau to use EPA's EROS data storage system (air quality/emission source data) for storage and retrieval of data. An agreement between BLM and NOAA will be necessary for the Bureau to use their National Climatic Center data bank for climatic data.
- 4. <u>Geology (Subsystem 0144)</u>. Implementation of non-mineral geology inventory data requirements will require a major effort. New procedures, forms and reports will require development since Manual guidelines are nonexistent at the present time.
- 5. <u>Water (Subsystem 0145)</u>. At present there are no Manual guidelines (7000) for water resource inventory. Therefore, a major effort will be required for development of new procedures, forms, and reports. Such an effort must be coordinated with Wildlife, Recreation, Range, Forestry, etc. Agreements must be worked out with Geological Survey and EPA for using their systems for storage and retrieval of water data (G.S. WATSTORE; EPA STORET).
- 6. URA. High priority requirements of Steps 2 (Physical Profile), 3 and 4 (Watershed) are included under the above subsystem so far as inputs and outputs are concerned. Generating outputs required in the present Manual 1605 will require substantial change in forms and reports. Future changes in output requirements for URA (Manual revisions) would result in a need for changes in the user specifications package prior to the design phase.
- F. <u>Data Element Dictionary</u>. A data element dictionary which includes all Watershed data elements for high priority inputs/outputs is included as a separate document. A Watershed I/O matrix for cross-referencing data elements to inputs and outputs is also included as a separate document.

EFA for using their systems for scorege and retrieval or water data (S.S. -

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